

4.2.D. 0513020605.

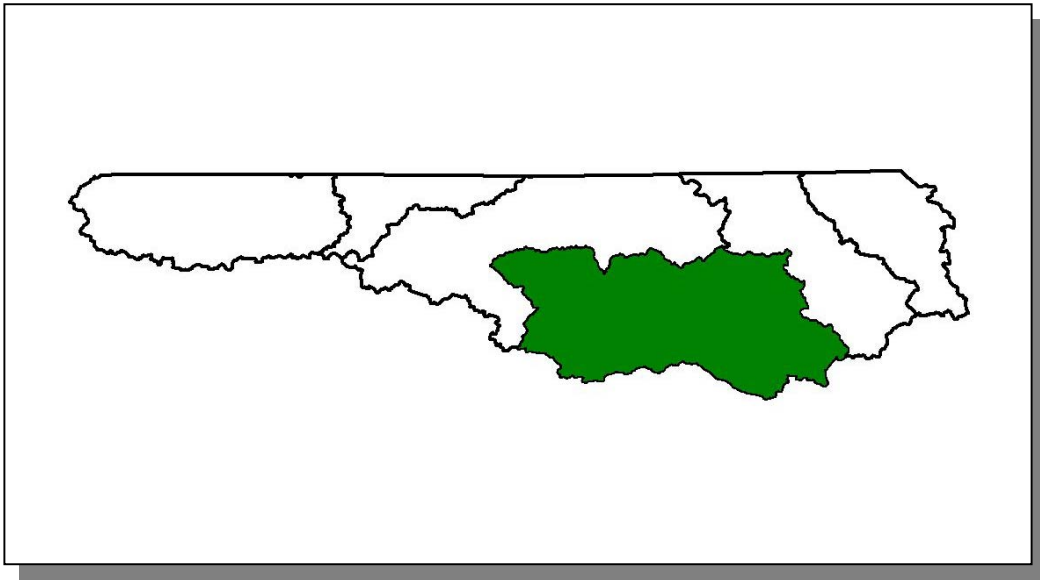


Figure 4-107. Location of Subwatershed 0513020605. All Red River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.D.i. 051302060501 (Sulphur Fork Creek).

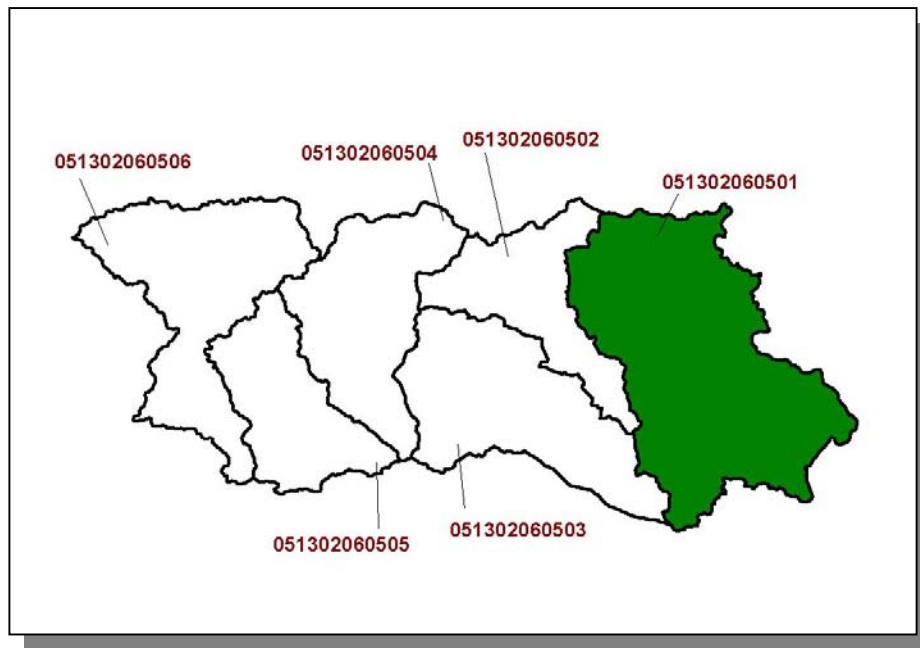


Figure 4-108. Location of Subwatershed 051302060501. All HUC-12 subwatershed boundaries are shown for reference.

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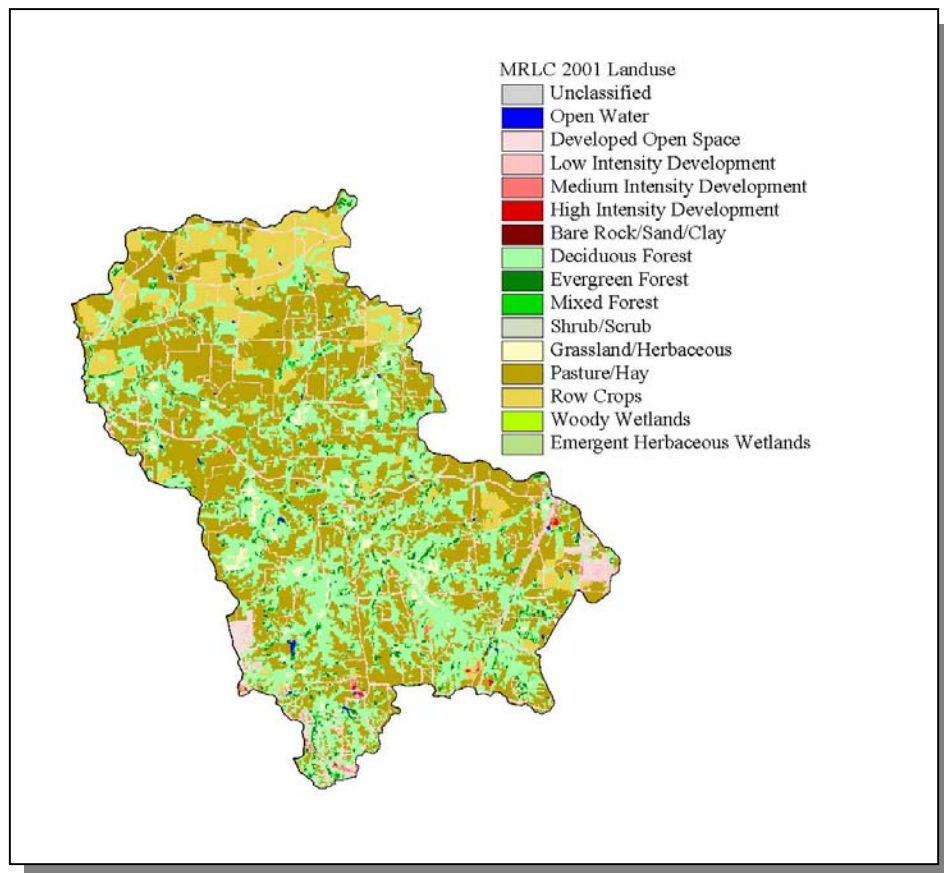


Figure 4-109. Illustration of Land Use Distribution in Subwatershed 051302060501.

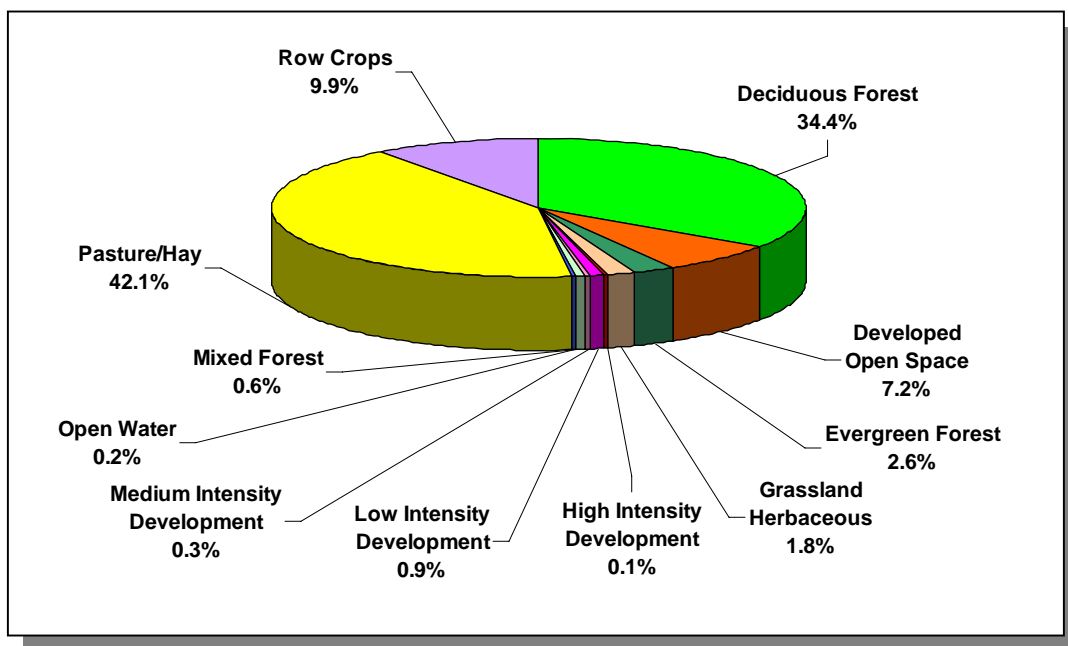


Figure 4-110. Land Use Distribution in Subwatershed 051302060501. More information is provided in Appendix IV.

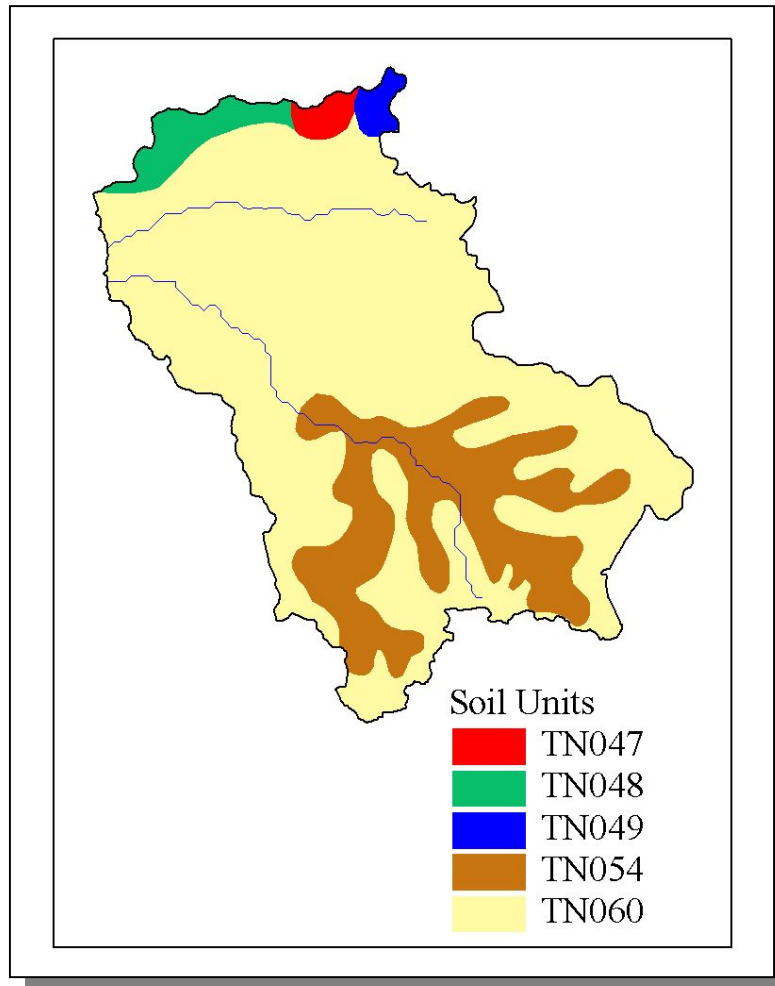


Figure 4-111. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060501.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN047	21.00	C	1.62	5.73	Silty Loam	0.37
TN048	8.00	B	1.38	5.06	Silty Loam	0.42
TN049	0.00	C	1.30	5.94	Silty Loam	0.34
TN054	0.00	B	3.04	4.84	Loam	0.32
TN060	5.00	C	1.30	5.32	Silty Loam	0.39

Table 4-84. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060501. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Robertson	41,494	51,533	54,433	12.43	5,156	6,403	6,764	31.2
Sumner	103,281	121,936	130,449	0.45	468	553	591	26.3
Total	144,775	173,469	184,882		5,624	6,956	7,355	30.8

Table 4-85. Population Estimates in Subwatershed 051302060501.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Greenbrier	Robertson	2,873	1,111	1,106	86	9
Millersville	Sumner	2,544	1,033	849	180	4
Nashville	Davidson	488,518	219,521	203,640	15,576	305
Springfield	Robertson	11,227	4,530	4,436	94	0
White House	Robertson	3,025	1,130	991	136	3
Total		508,187	227,325	211,022	16,072	321

Table 4-86. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060501.

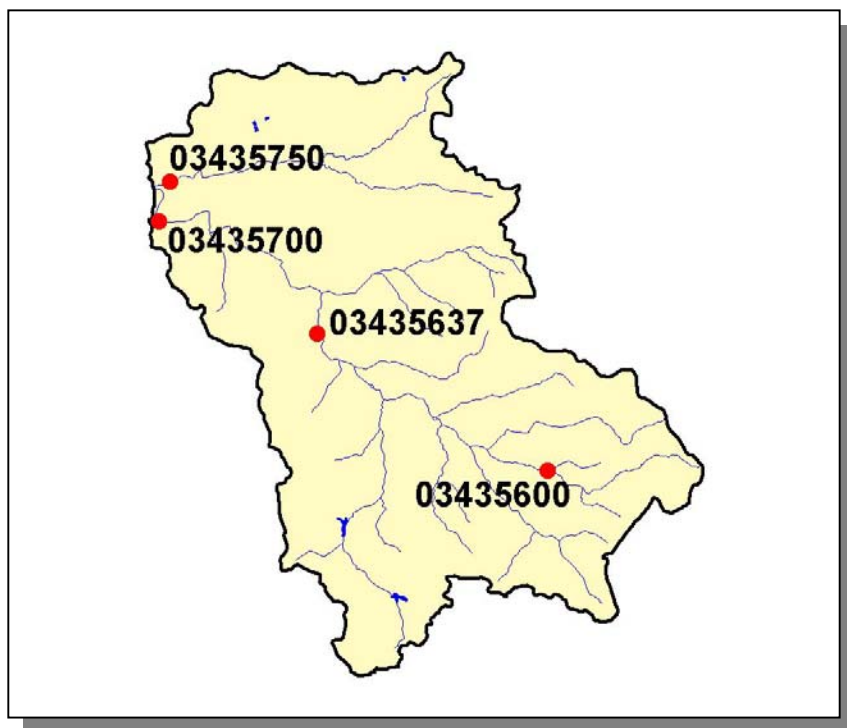


Figure 4-112. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060501. More information is provided in Appendix IV.

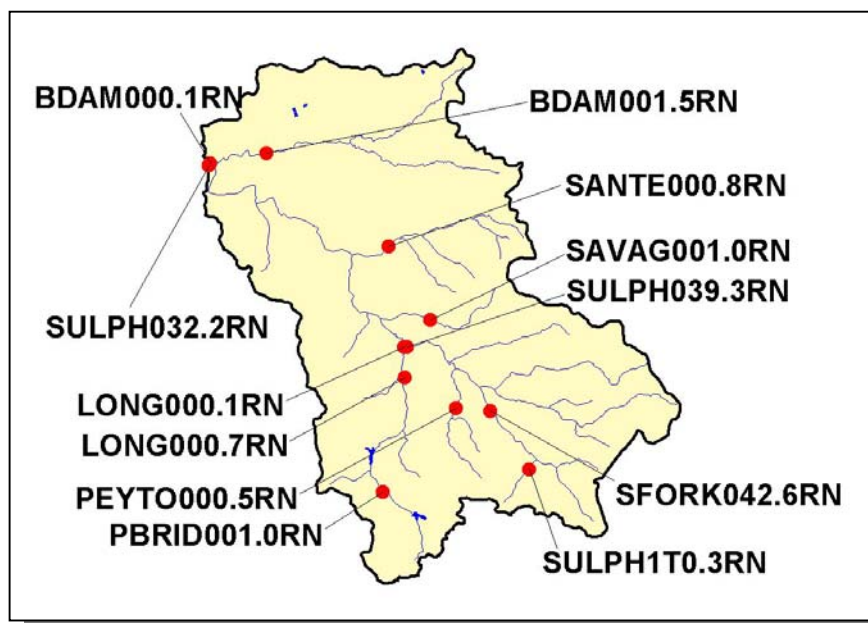


Figure 4-113. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060501. More information, including site names and locations and stations located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.D.i.a. Point Source Contributions.

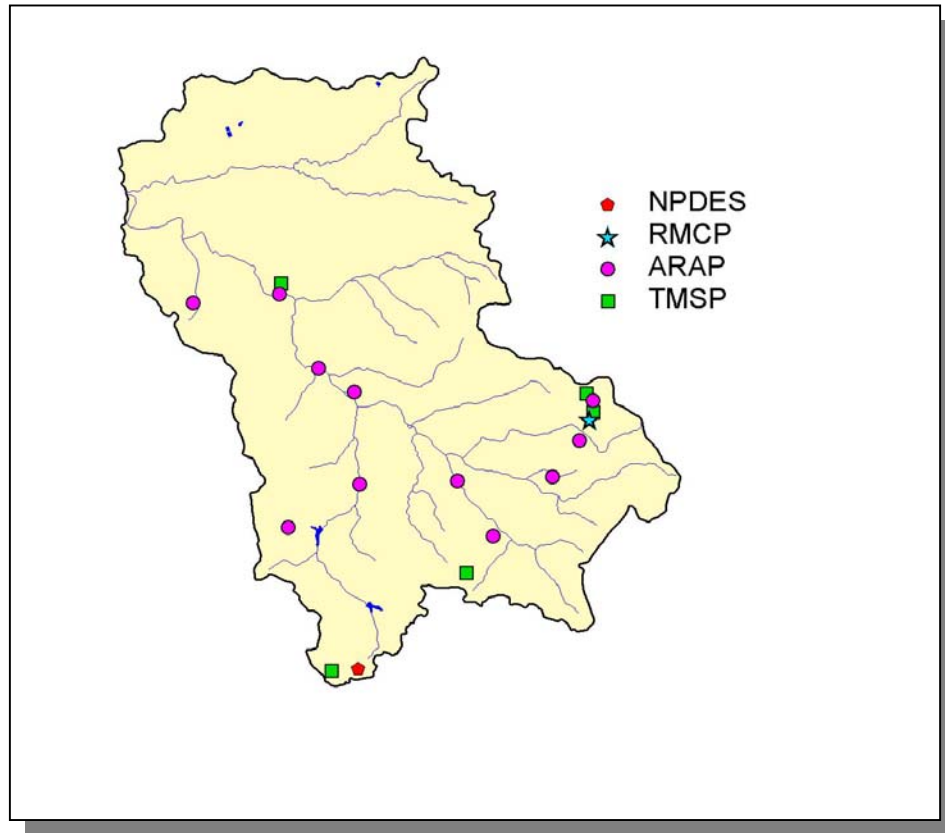


Figure 4-114. Location of Permits Issued in Subwatershed 051302060501. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-115. Location of Active NPDES Sites in Subwatershed 051302060501. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-116. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 051302060501. More information is provided in Appendix IV.

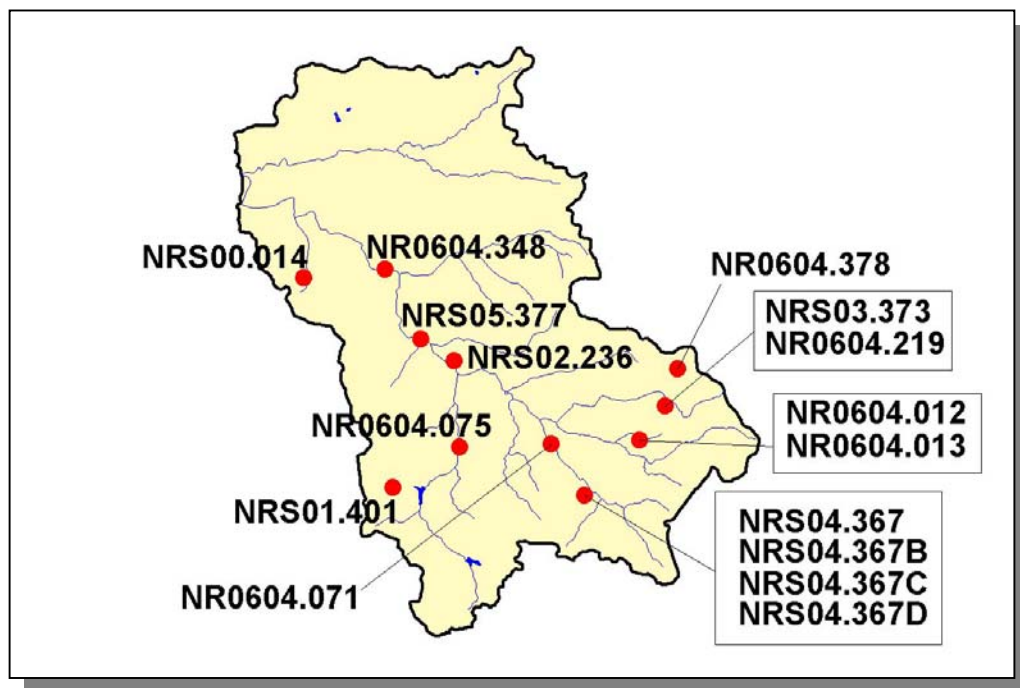


Figure 4-117. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060501. More information is provided in Appendix IV.

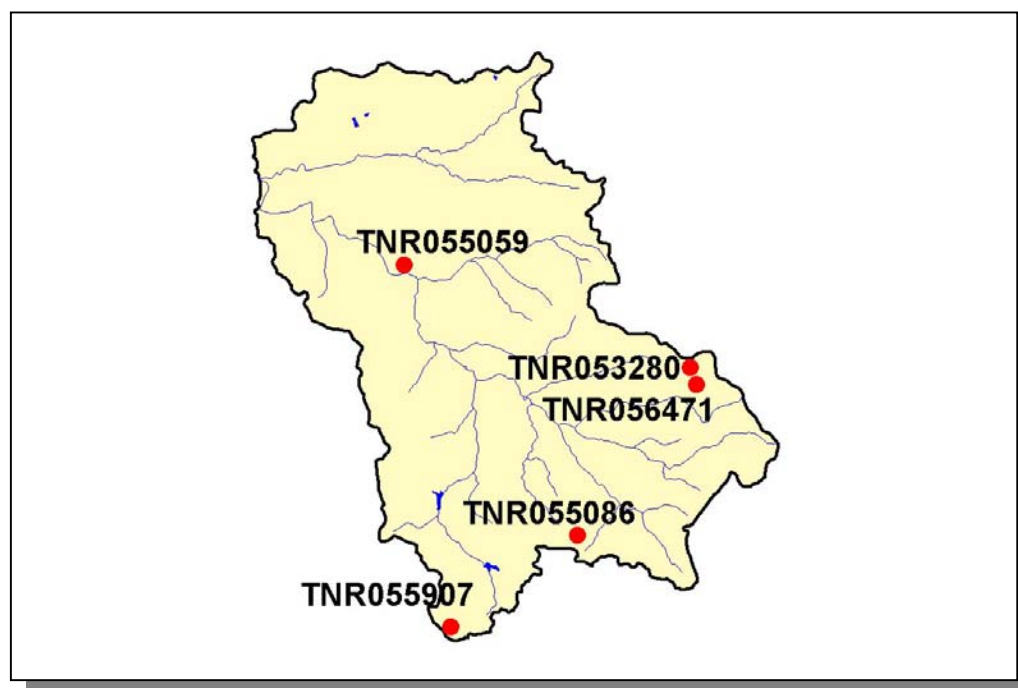


Figure 4-118. Location of TMSP Sites in Subwatershed 051302060501. More information, including the names of facilities, is provided in Appendix IV.

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4.2.D.i.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
2,887	6,129	434	<5	868	35

Table 4-87. Summary of Livestock Count Estimates in Subwatershed 051302060501. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Robertson	22,502	47,887	3,478	31	6,982	279
Sumner	22,296	45,116	1,515	50	2,500	189

Table 4-88. Summary of Livestock Count Estimates in Montgomery and Sumner Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Robertson	53.0	53.0	2.2	9.7
Sumner	88.2	88.2	2.0	6.3

Table 4-89. Forest Acreage and Annual Removal Rates (1987-1994) in Robertson and Sumner Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.66
Grass (Hayland)	0.37
Legumes, Grass (Hayland)	0.52
Legumes (Hayland)	0.71
Grass, Forbs, Legumes (Mixed Pasture)	0.42
Corn (Row Crops)	5.43
Soybeans (Row Crops)	10.08
Tobacco (Row Crops)	11.87
Wheat (Close-Grown Cropland)	1.68
Other Cropland not Planted	9.97
Conservation Reserve Program Lands	0.36
Other Land in Farms	0.27
Farmsteads and Ranch Headquarters	0.93

Table 4-90. Annual Estimated Total Soil Loss in Subwatershed 051302060501.

4.2.D.ii. 051302060502 (Sulphur Fork Creek).

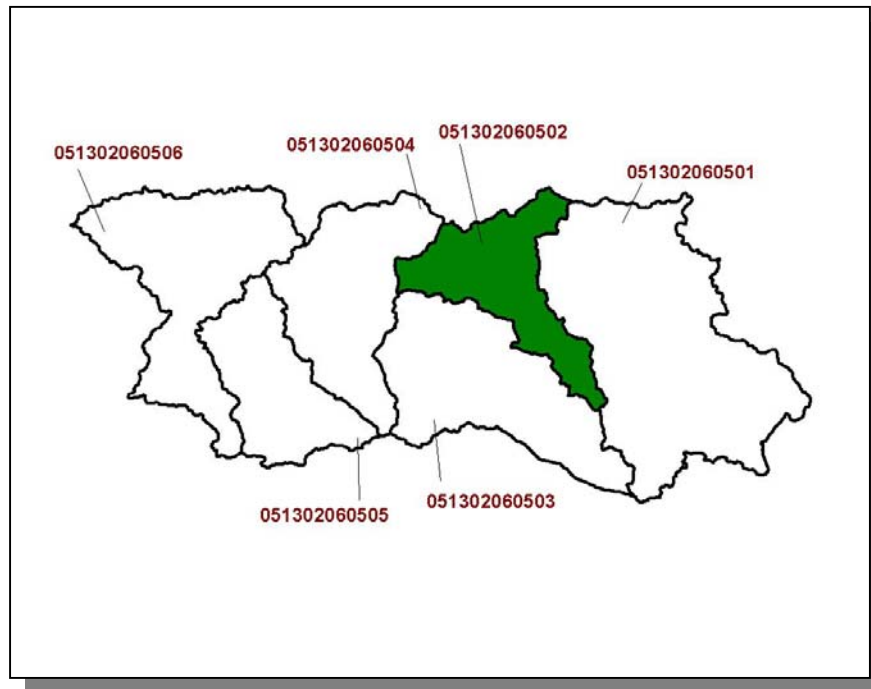


Figure 4-119. Location of Subwatershed 051302060502. All HUC-12 subwatershed boundaries are shown for reference.

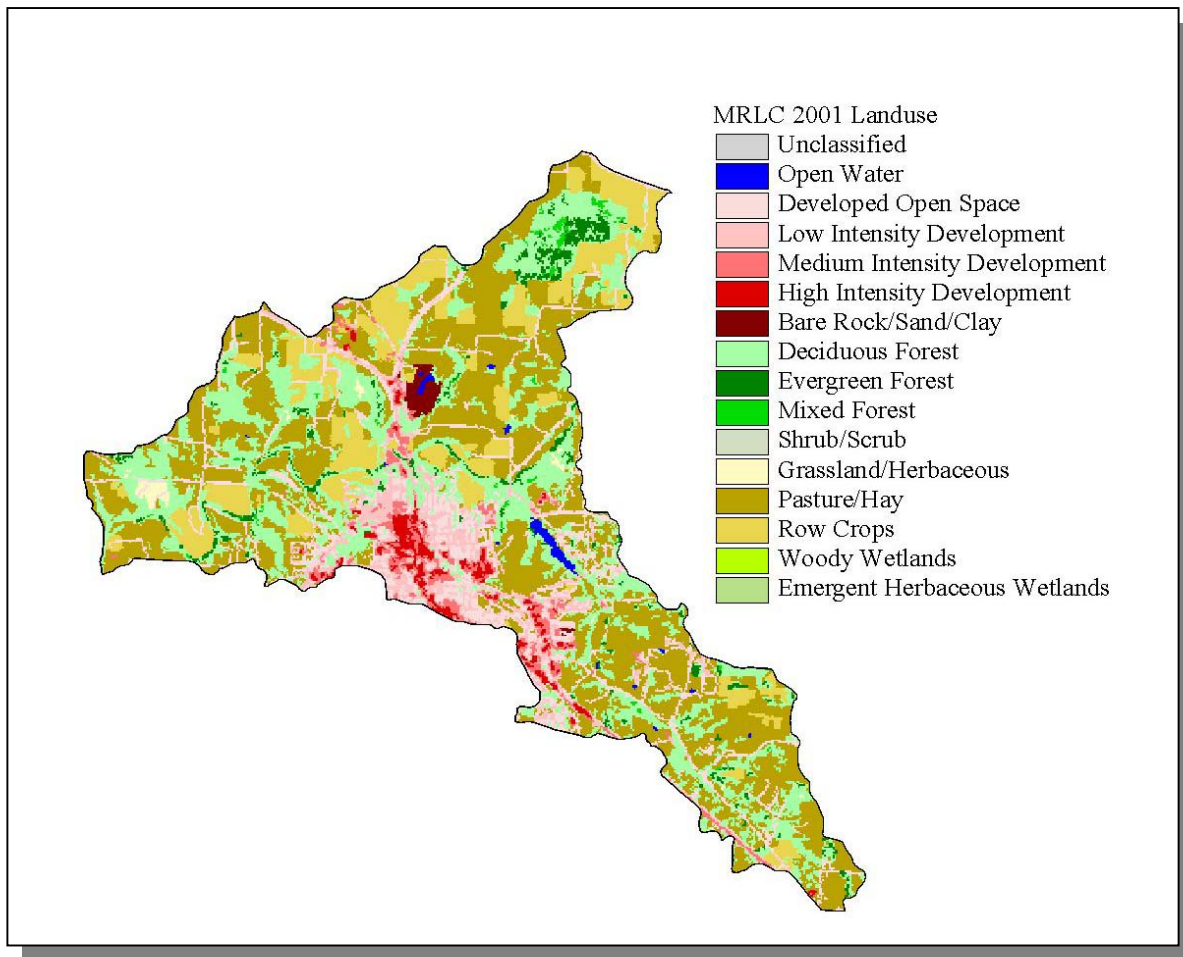


Figure 4-120. Illustration of Land Use Distribution in Subwatershed 051302060502.

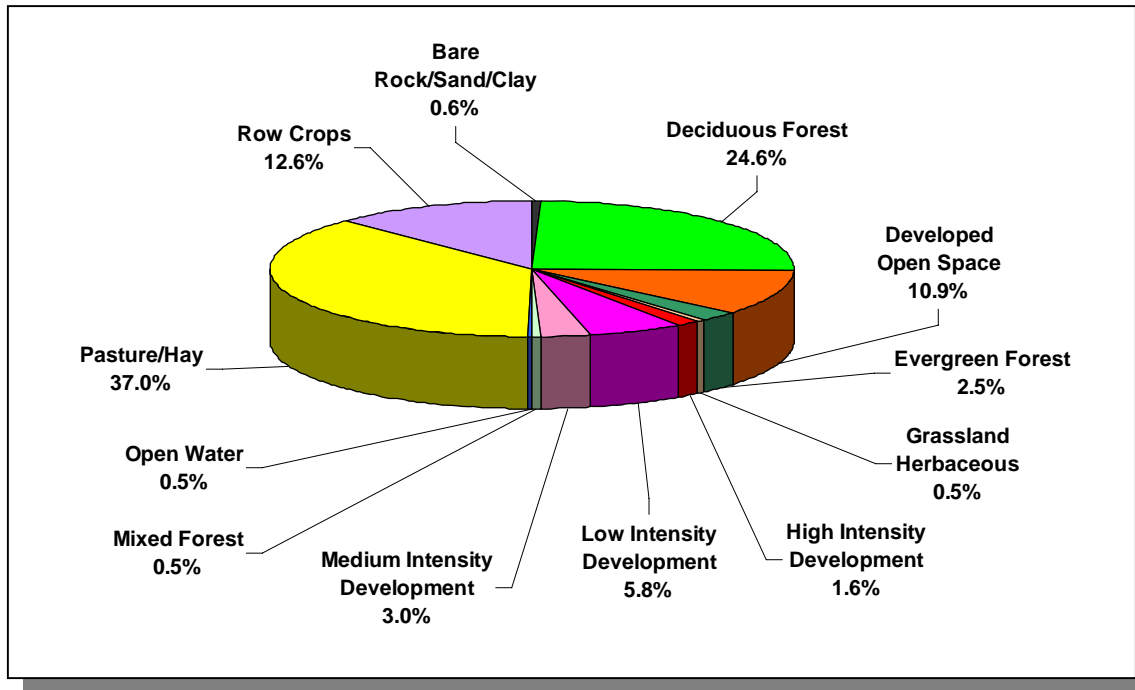


Figure 4-121. Land Use Distribution in Subwatershed 051302060502. More information is provided in Appendix IV.

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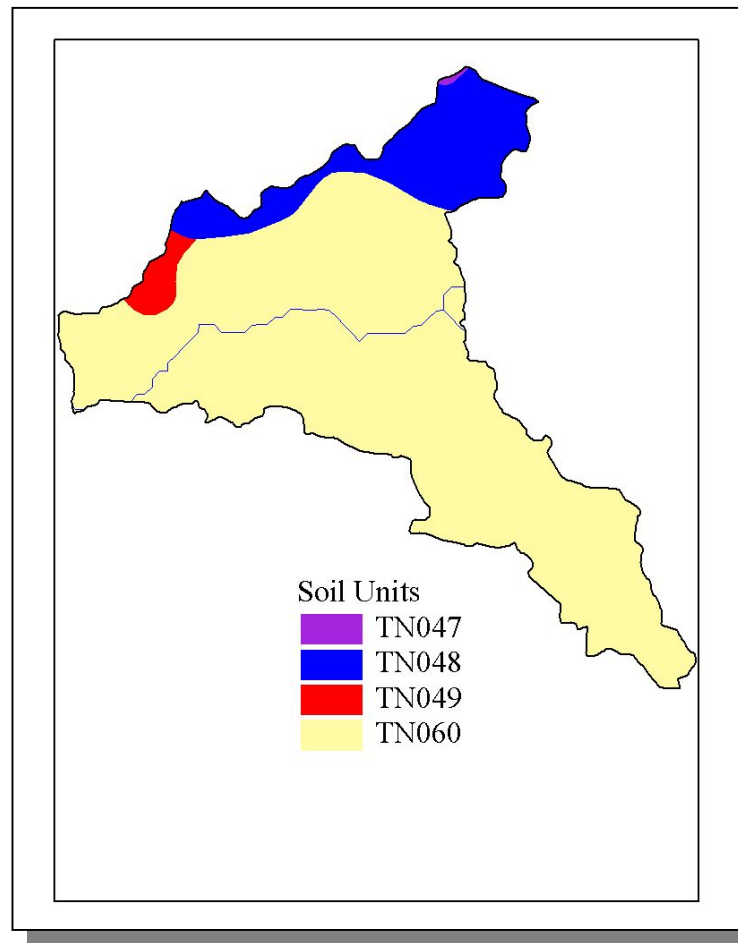


Figure 4-122. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060502.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN047	21.00	C	1.62	5.73	Silty Loam	0.37
TN048	8.00	B	1.38	5.06	Silty Loam	0.42
TN049	0.00	C	1.30	5.94	Silty Loam	0.34
TN060	5.00	C	1.30	5.32	Silty Loam	0.39

Table 4-91. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060502. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Robertson	41,494	51,533	54,433	4.64	1,926	2,392	2,526	31.2

Table 4-92. Population Estimates in Subwatershed 051302060502.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Greenbrier	Robertson	2,873	1,111	1,016	86	9
Springfield	Robertson	11,227	4,530	4,436	94	0
Total		14,100	5,641	5,452	180	9

Table 4-93. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060502.

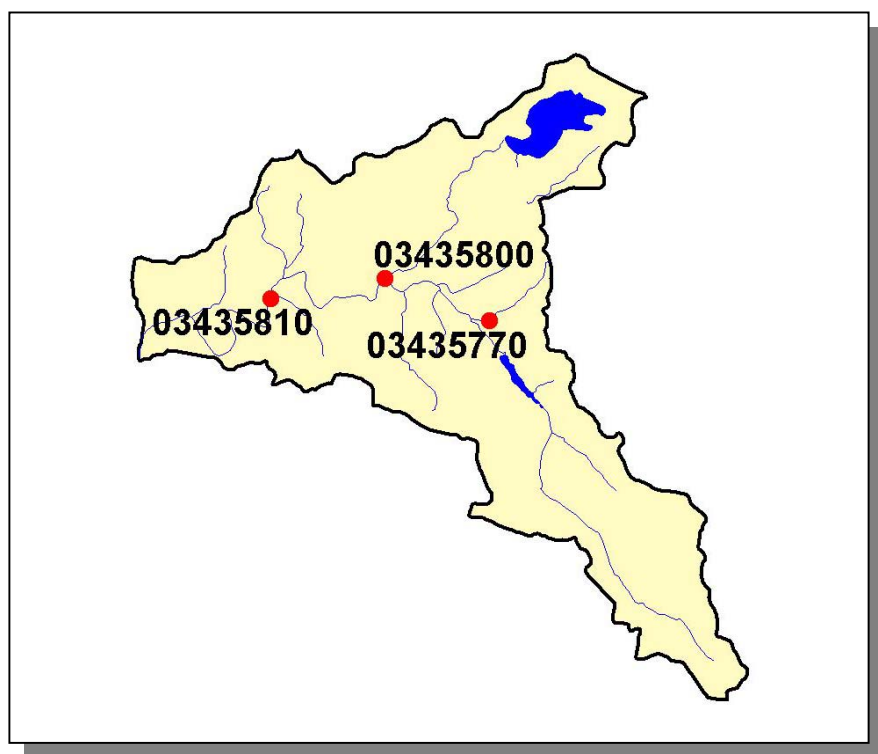


Figure 4-123. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060502. More information is provided in Appendix IV.

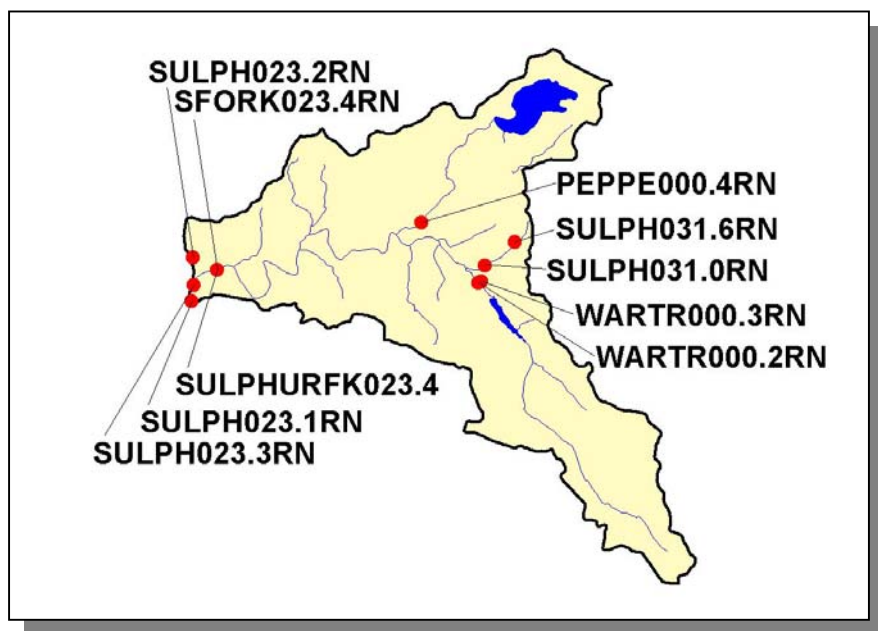


Figure 4-124. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060502. More information, including site names and locations and stations located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.D.ii.a. Point Source Contributions.

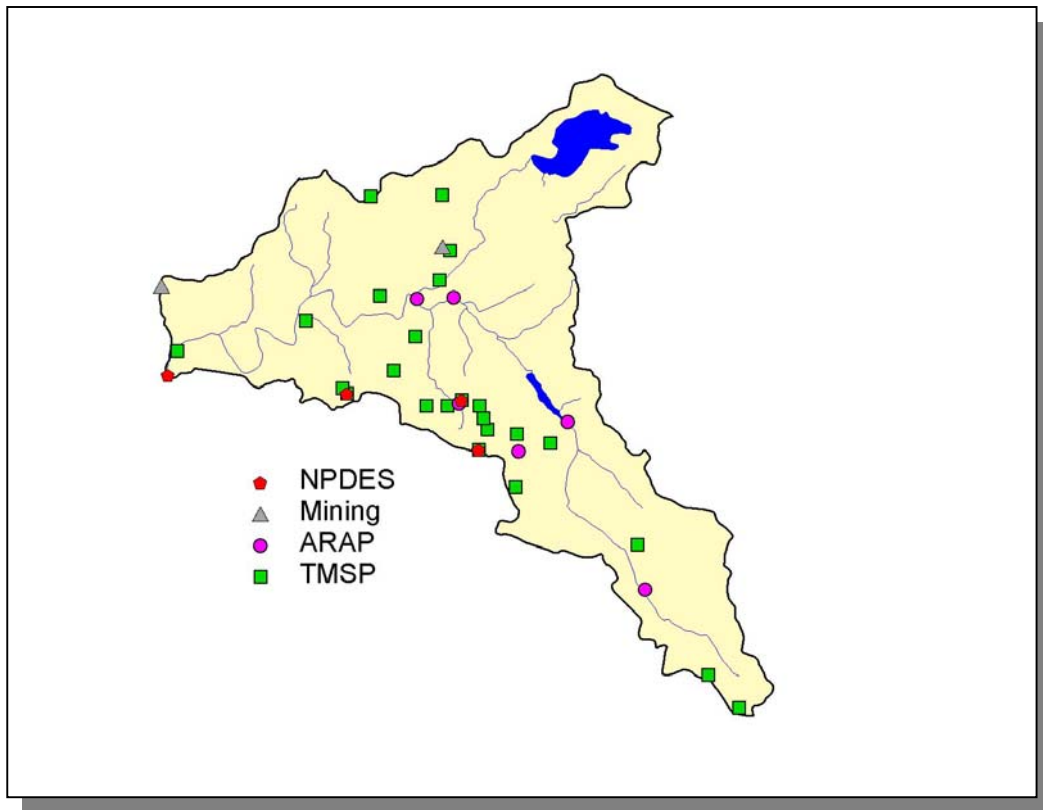


Figure 4-125. Location of Permits Issued in Subwatershed 051302060502. More information, including the names of facilities, is provided in Appendix IV.

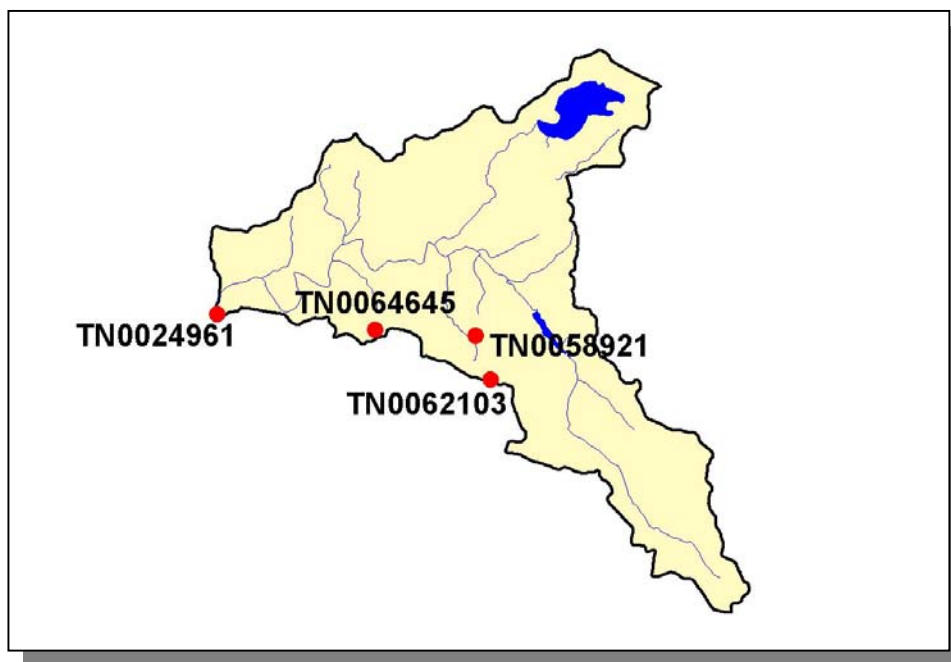


Figure 4-126. Location of Active NPDES Sites in Subwatershed 051302060502. More information, including the names of facilities, is provided in Appendix IV.

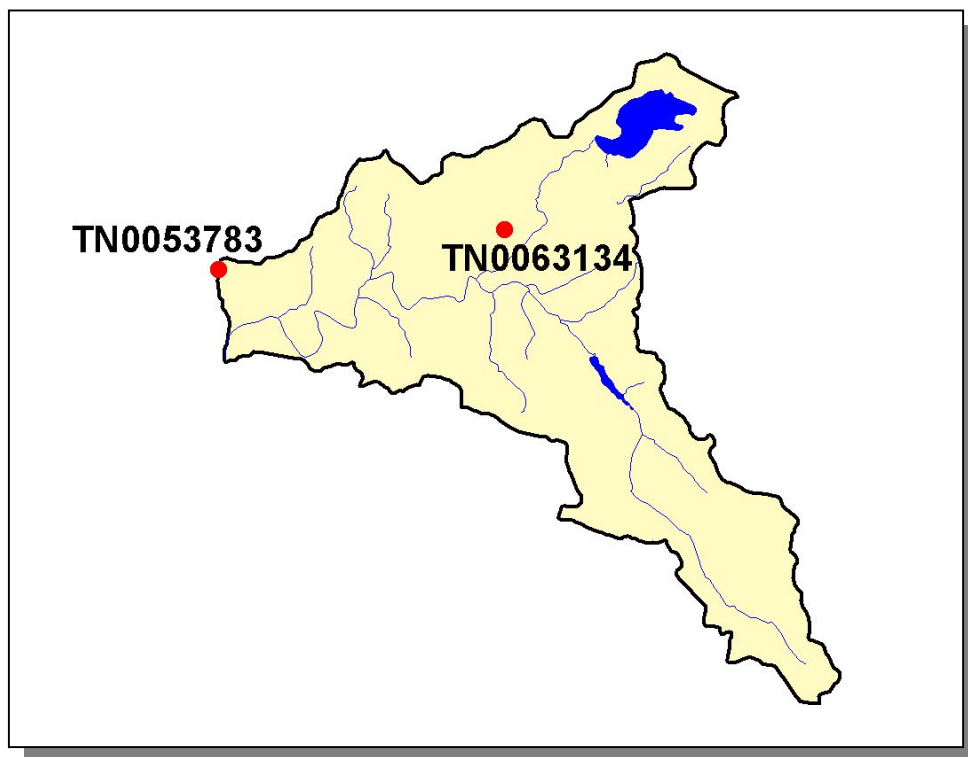


Figure 4-127. Location of Active Mining Sites in Subwatershed 051302060502. More information, including the names of mining operations, is provided in Appendix IV.

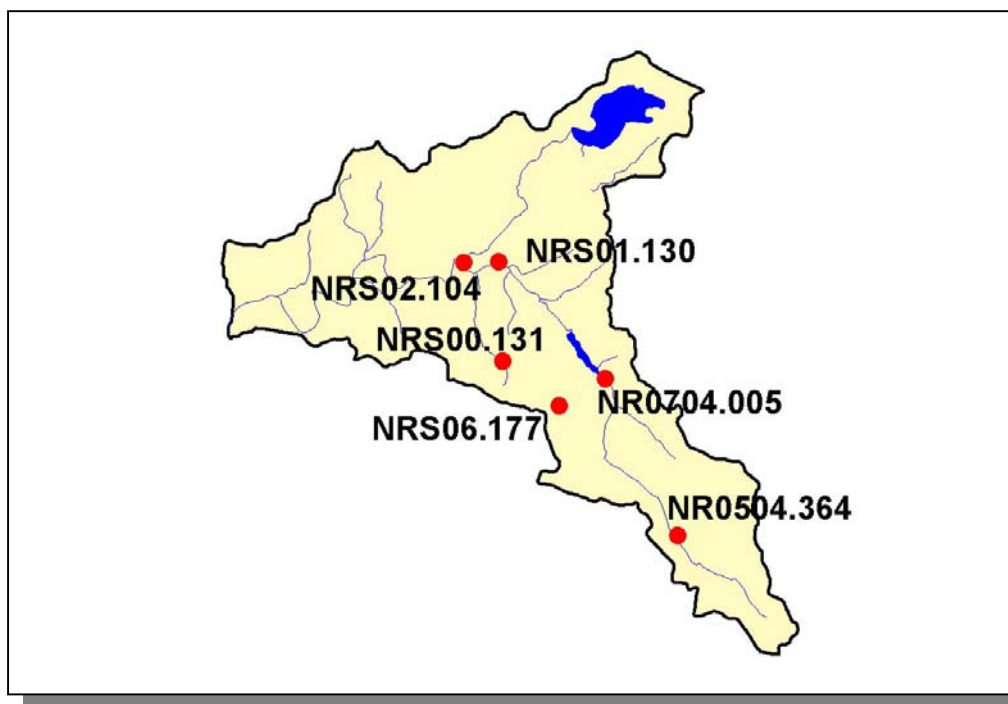


Figure 4-128. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060502. More information is provided in Appendix IV.

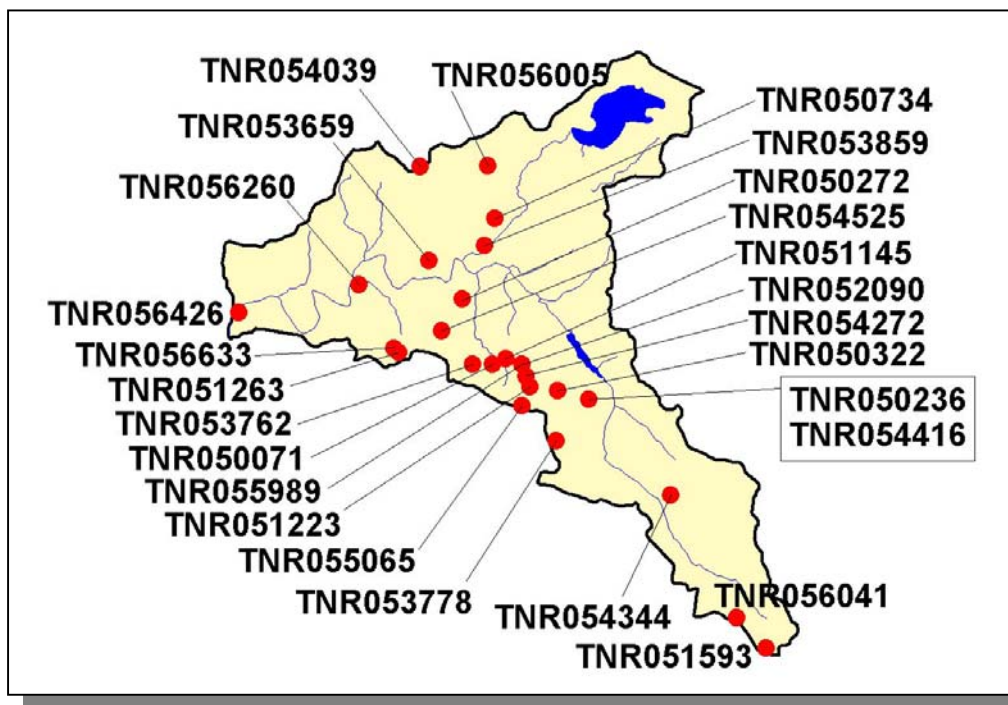


Figure 4-129. Location of TMSP Sites in Subwatershed 051302060502. More information, including the names of facilities, is provided in Appendix IV.

4.2.D.ii.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 051302060502:

- TN0024961 (Springfield STP) discharges to Sulphur Fork Creek @ RM 23.2

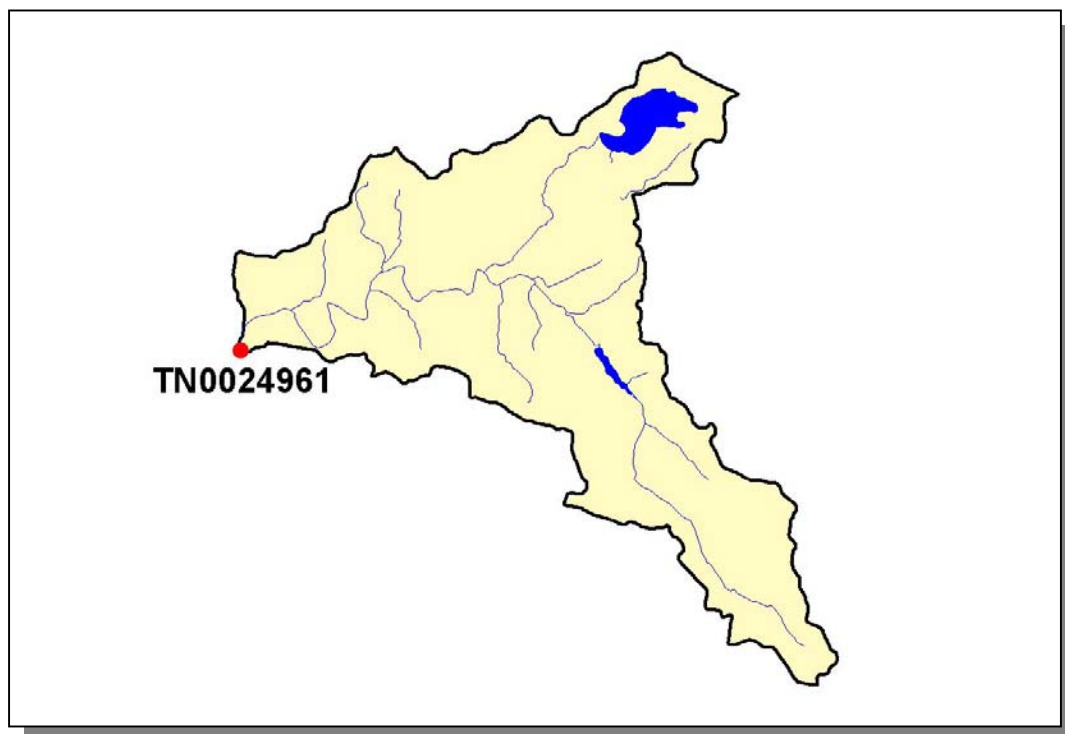


Figure 4-130. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 051302060502. More information, including the names of facilities, is provided in Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	3Q5	QDESIGN
TN0024961	Regulated		4.4		8.34	3.4

Table 4-94. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060502. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

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PERMIT #	TOTAL NITROGEN	TOTAL PHOSPHOROUS	TEMPERATURE	FLOW
TN0024961	X	X	X	X

Table 4-95. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060502.

PERMIT #	WET	CBOD ₅	NH ₃	Hg	CN	TSS	DO	pH
TN0024961	X	X	X	X	X	X	X	X

Table 4-96. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060502. WET, Whole Effluent Toxicity; CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); NH₃, Ammonia; TSS, Total Suspended Solids; DO, Dissolved Oxygen.

PERMIT #	E. coli
TN0024961	X

Table 4-97. Bacteria Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060502.

4.2.D.ii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,053	2,241	163	<5	327	13

Table 4-98. Summary of Livestock Count Estimates in Subwatershed 051302060502. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Robertson	22,502	47,887	3,478	31	6,982	279

Table 4-99. Summary of Livestock Count Estimates in Robertson County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

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County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Robertson	53.0	53.0	2.2	9.7

Table 4-100. Forest Acreage and Annual Removal Rates (1987-1994) in Robertson County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.67
Grass (Hayland)	0.37
Legumes, Grass (Hayland)	0.53
Legumes (Hayland)	0.73
Grass, Forbs, Legumes (Mixed Pasture)	0.42
Corn (Row Crops)	5.15
Soybeans (Row Crops)	10.03
Tobacco (Row Crops)	11.87
Wheat (Close-Grown Cropland)	1.68
Other Cropland not Planted	9.59
Conservation Reserve Program Lands	0.36
Other Land in Farms	0.27
Farmsteads and Ranch Headquarters	0.95

Table 4-101. Annual Estimated Total Soil Loss in Subwatershed 051302060502.

4.2.D.iii. 051302060503 (Carr Creek).

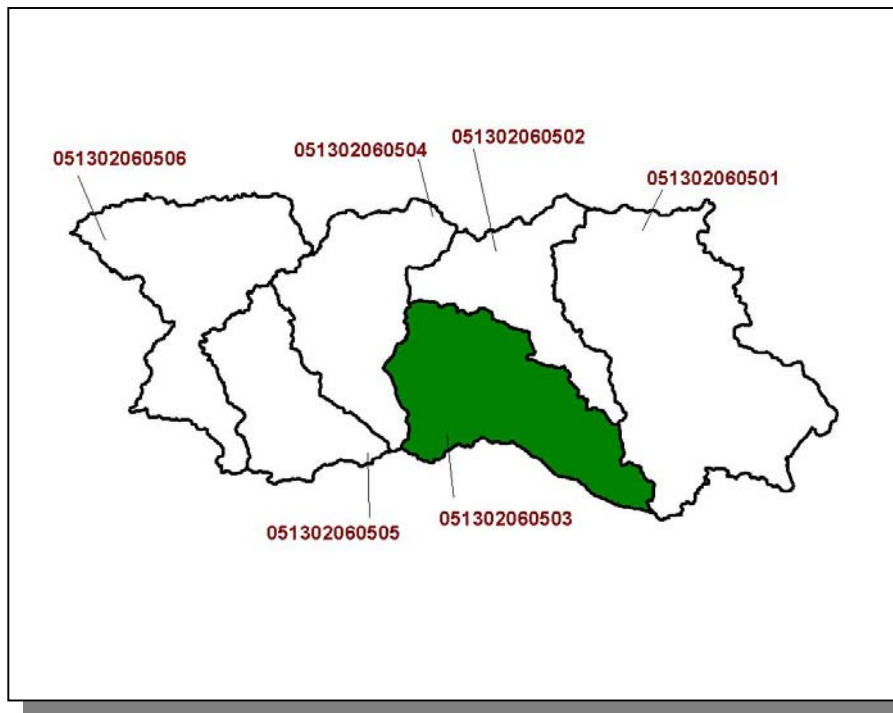


Figure 4-131. Location of Subwatershed 051302060503. All HUC-12 subwatershed boundaries are shown for reference.

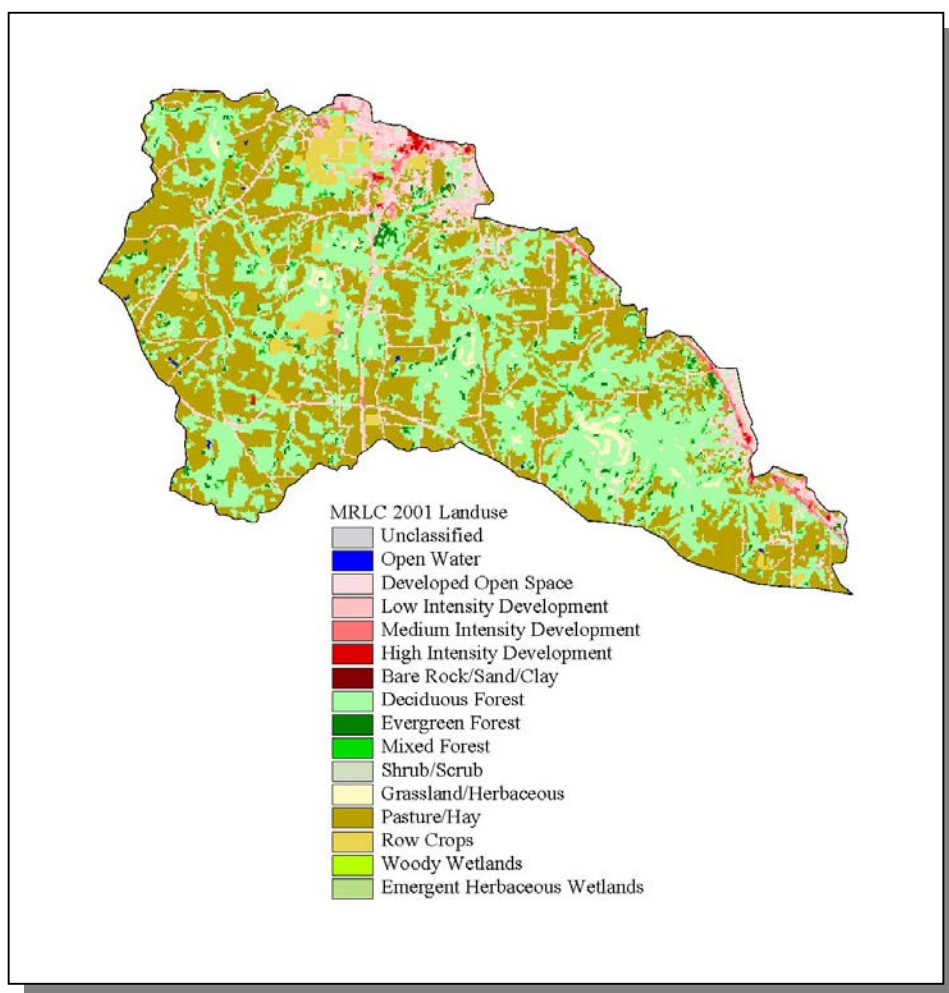


Figure 4-132. Illustration of Land Use Distribution in Subwatershed 051302060503.

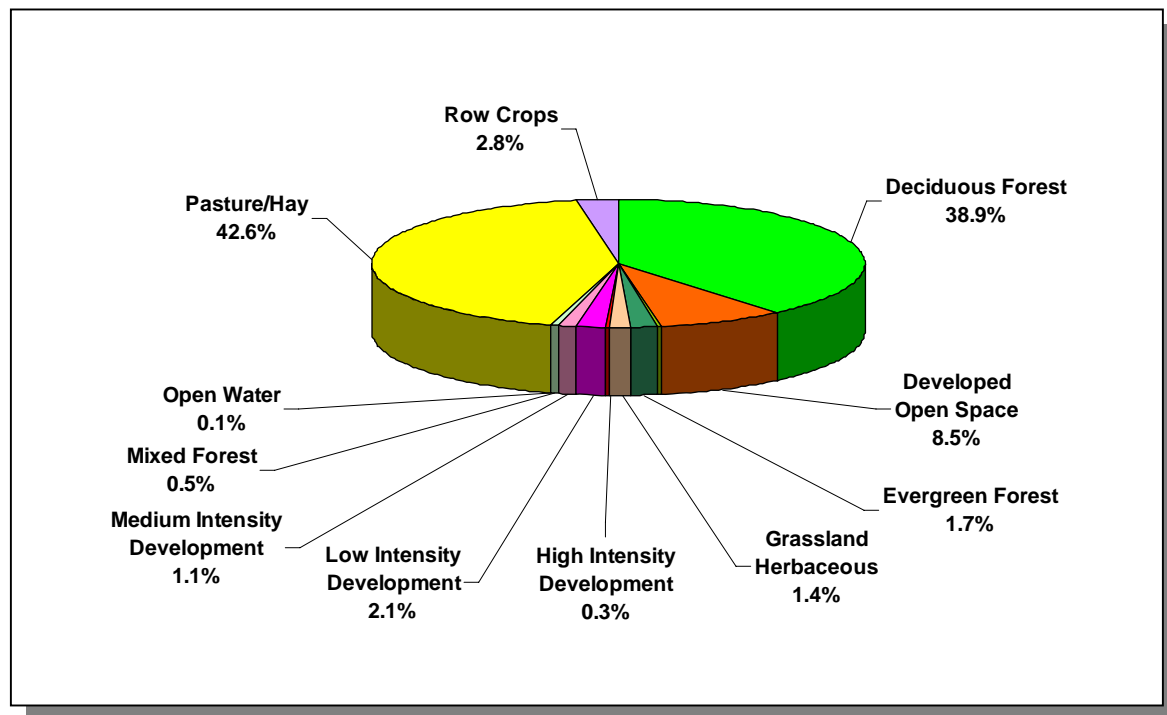


Figure 4-133. Land Use Distribution in Subwatershed 051302060503. More information is provided in Appendix IV.

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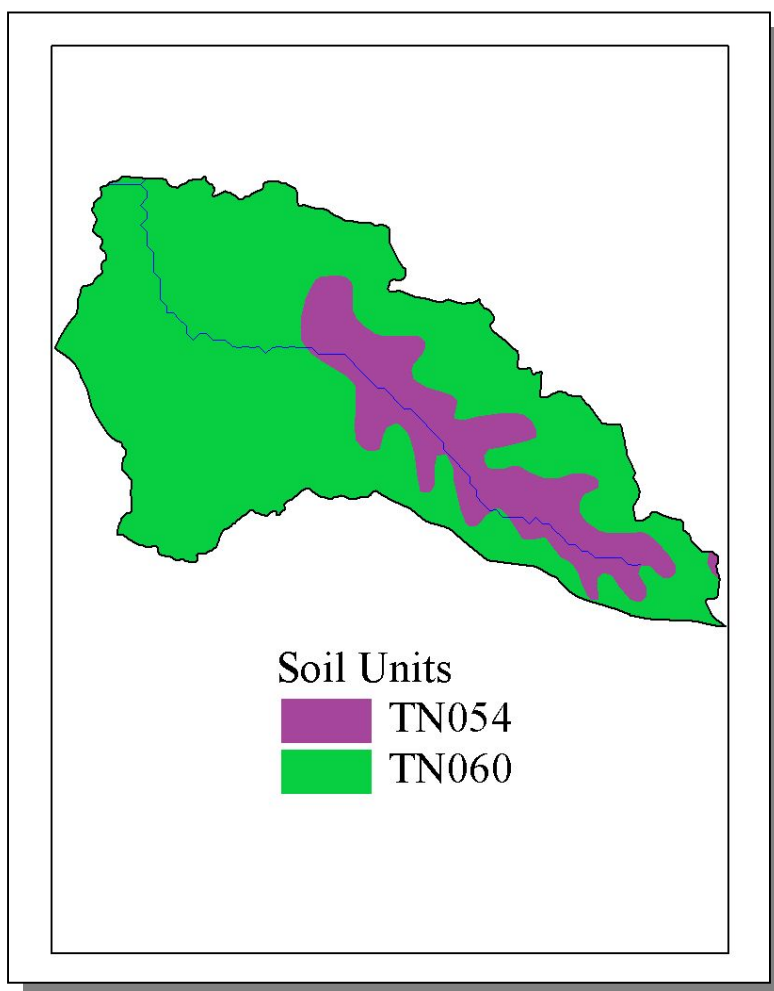


Figure 4-134. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060503.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	B	3.04	4.84	Loam	0.32
TN060	5.00	C	1.30	5.32	Silty Loam	0.39

Table 4-102. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060503. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Robertson	41,494	51,533	54,433	7.36	3,055	3,794	4,007	31.2

Table 4-103. Population Estimates in Subwatershed 051302060503.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Greenbrier	Robertson	2,873	1,111	1,016	86	9
Ridgetop	Robertson	1,129	396	7	389	0
Springfield	Robertson	11,227	4,530	4,436	94	0
Total		15,229	6,037	5,459	569	9

Table 4-104. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060503.

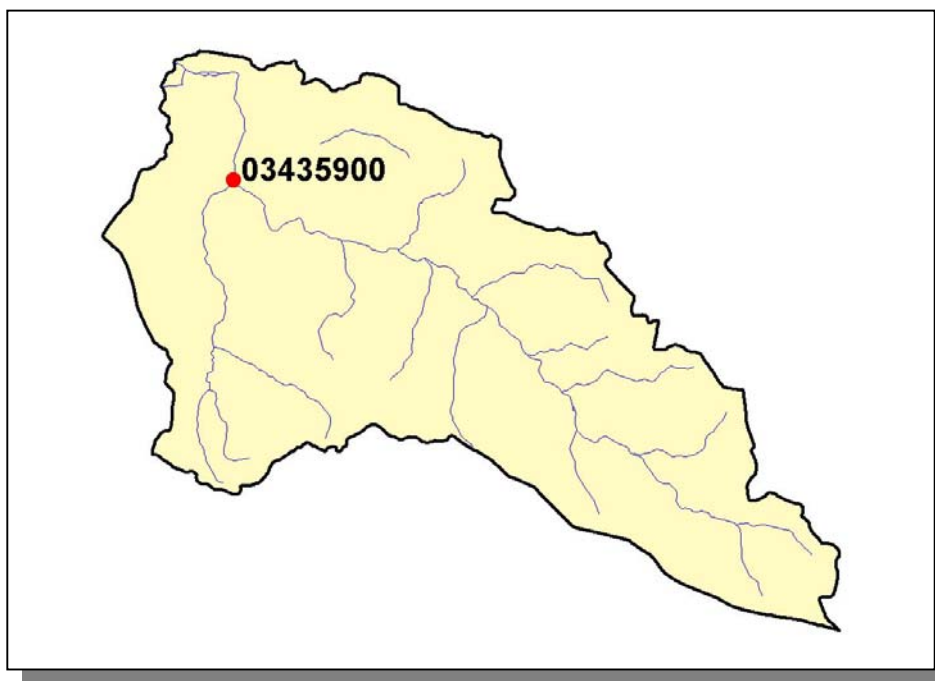


Figure 4-135. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060503. More information is provided in Appendix IV.

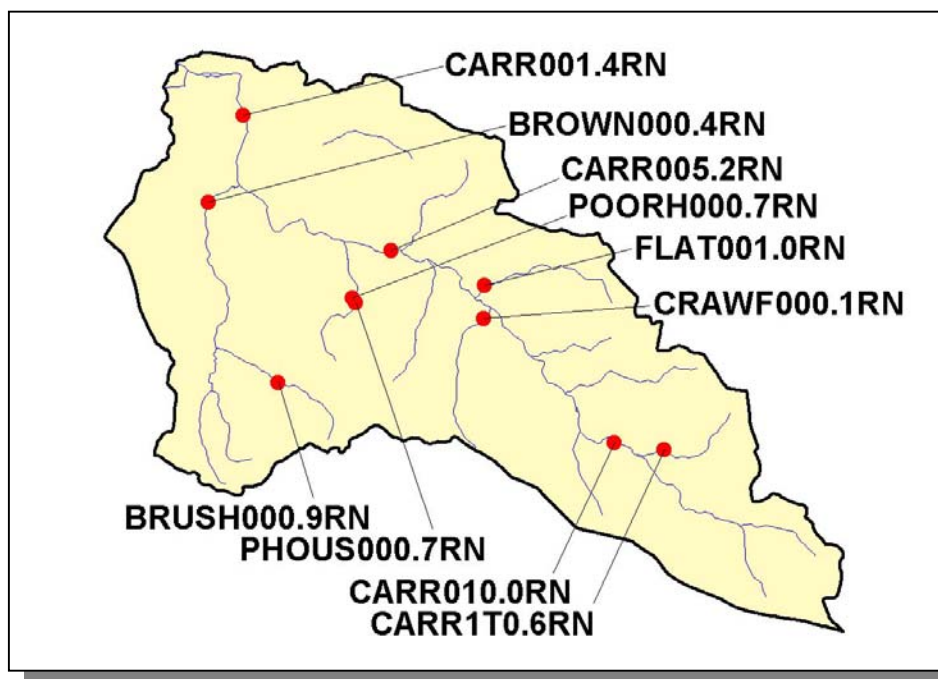


Figure 4-136. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060503. More information, including site names and locations and stations located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.D.iii.a. Point Source Contributions.

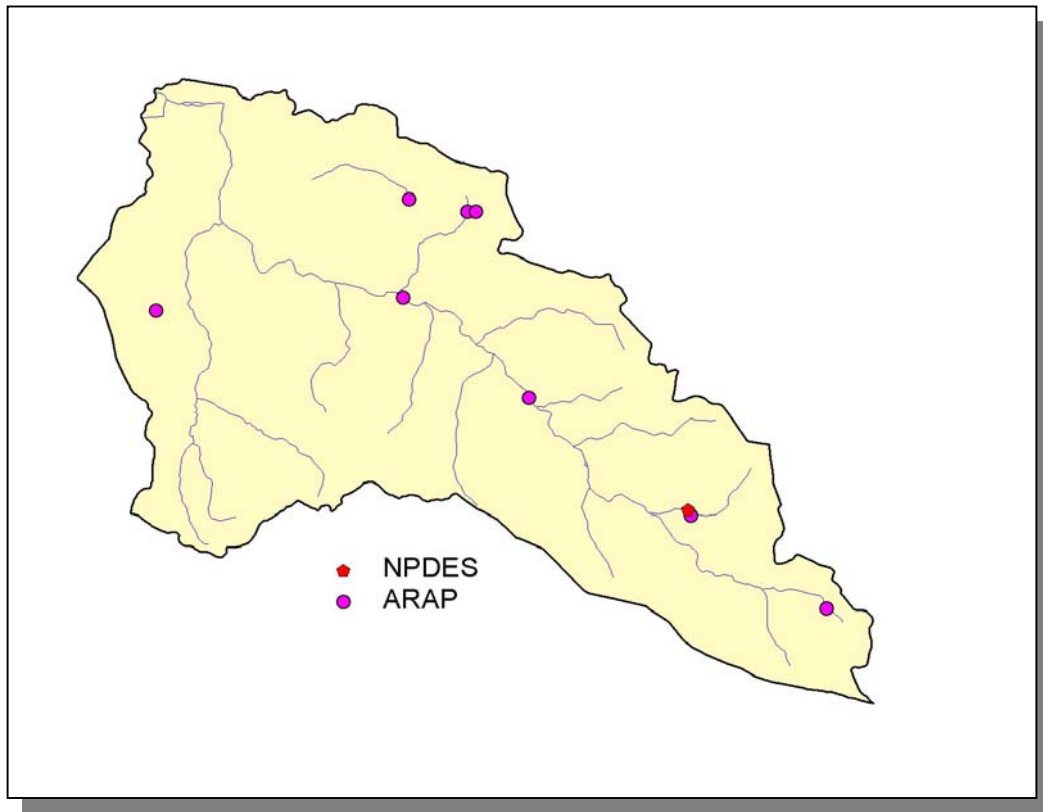


Figure 4-137. Location of Permits Issued in Subwatershed 051302060503. More information, including the names of facilities, is provided in Appendix IV.

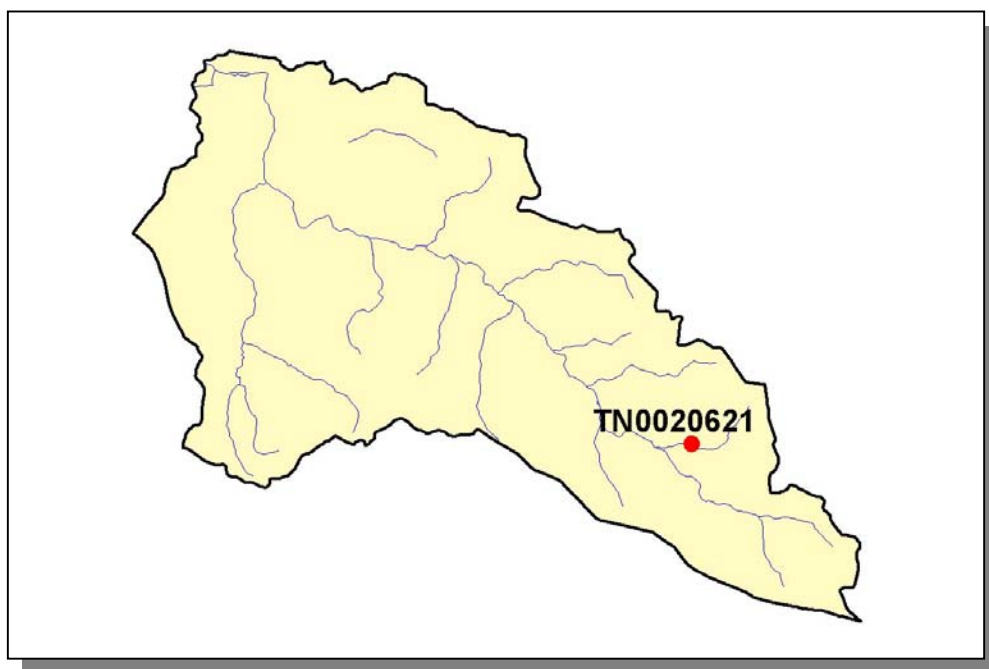


Figure 4-138. Location of Active NPDES Sites in Subwatershed 051302060503. More information, including the names of facilities, is provided in Appendix IV.

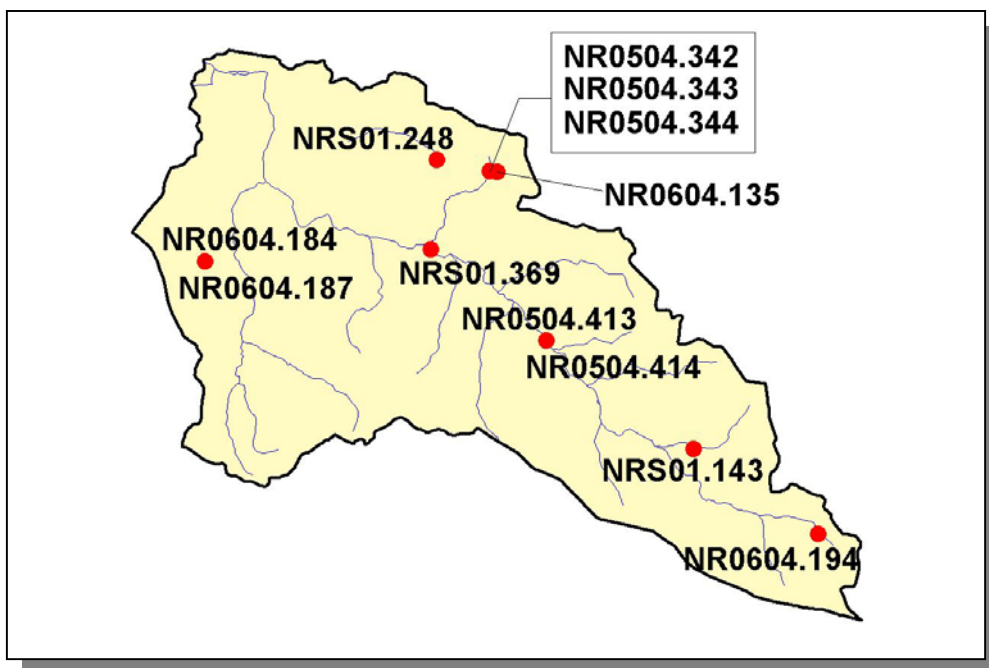


Figure 4-139. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060503. More information is provided in Appendix IV.

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4.2.D.iii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,454	3,094	225	<5	451	18

Table 4-105. Summary of Livestock Count Estimates in Subwatershed 051302060503. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Robertson	22,502	47,887	3,478	31	6,982	279

Table 4-106. Summary of Livestock Count Estimates in Robertson County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Robertson	53.0	53.0	2.2	9.7

Table 4-107. Forest Acreage and Annual Removal Rates (1987-1994) in Robertson County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.67
Grass (Hayland)	0.37
Legumes, Grass (Hayland)	0.53
Legumes (Hayland)	0.73
Grass, Forbs, Legumes (Mixed Pasture)	0.42
Corn (Row Crops)	5.15
Soybeans (Row Crops)	10.03
Tobacco (Row Crops)	11.87
Wheat (Close-Grown Cropland)	1.68
Other Cropland not Planted	9.59
Conservation Reserve Program Lands	0.36
Other Land in Farms	0.27
Farmsteads and Ranch Headquarters	0.95

Table 4-108. Annual Estimated Total Soil Loss in Subwatershed 051302060503.

4.2.D.iv. 051302060504 (Sulphur Fork Creek).

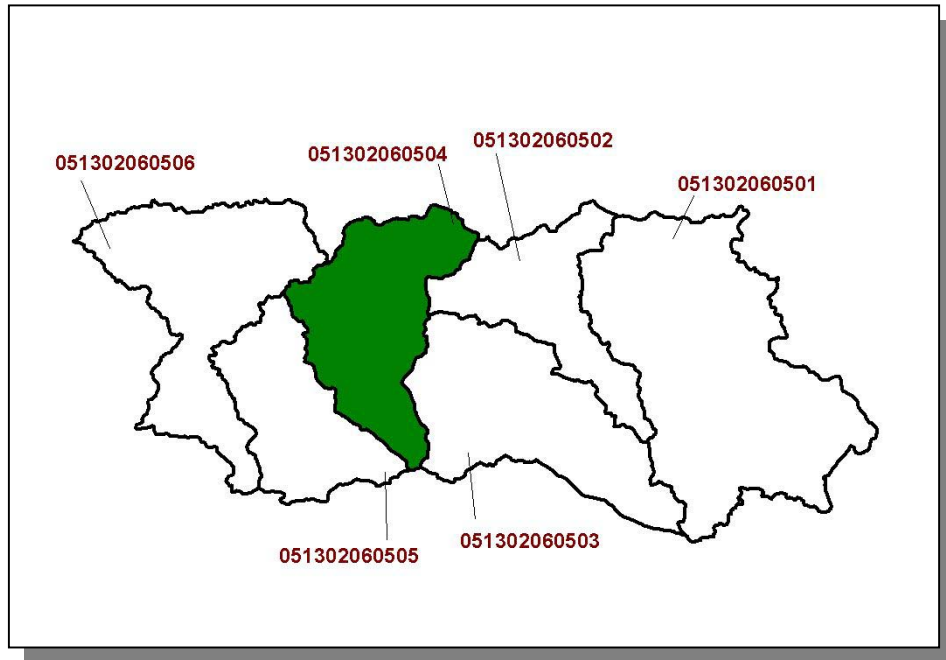


Figure 4-140. Location of Subwatershed 051302060504. All HUC-12 subwatershed boundaries are shown for reference.

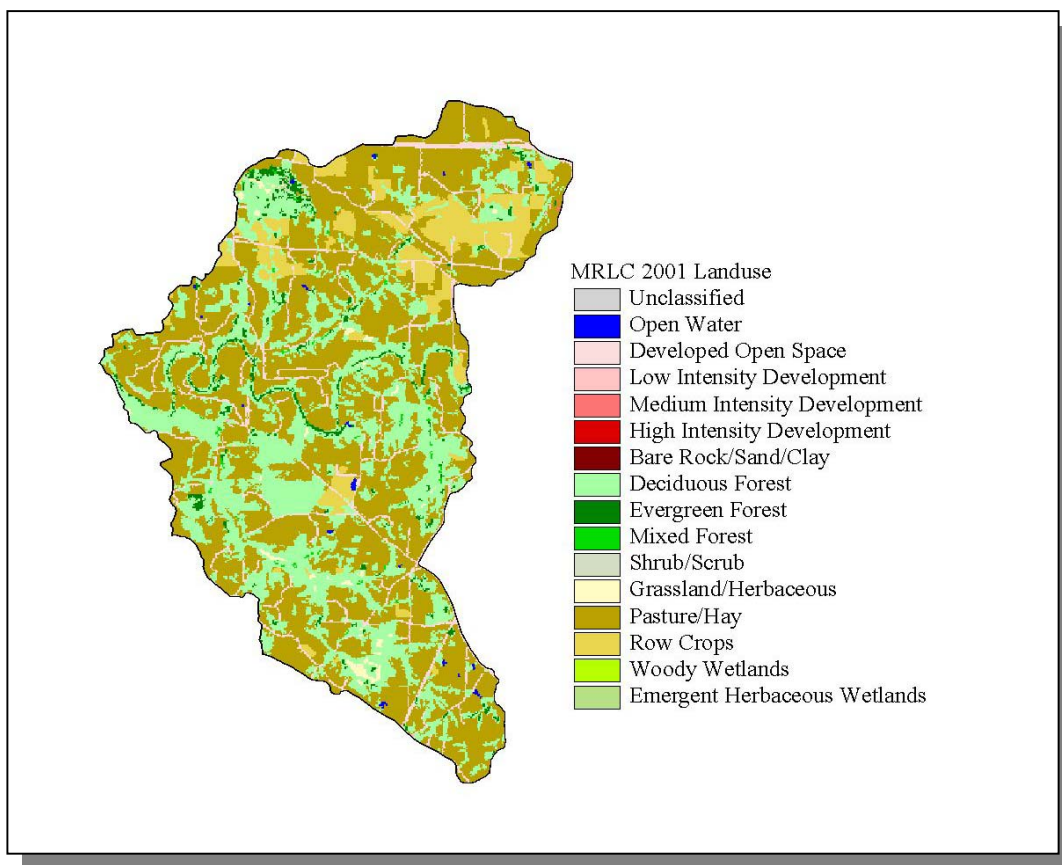


Figure 4-141. Illustration of Land Use Distribution in Subwatershed 051302060504.

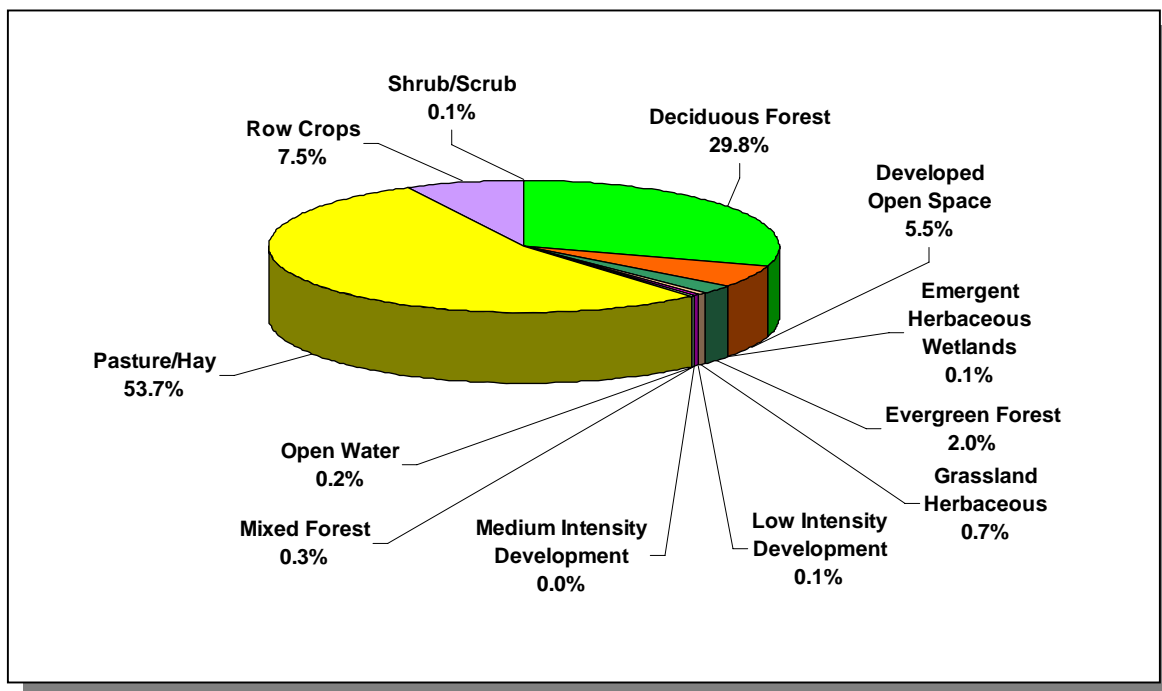


Figure 4-142. Land Use Distribution in Subwatershed 051302060504. More information is provided in Appendix IV.

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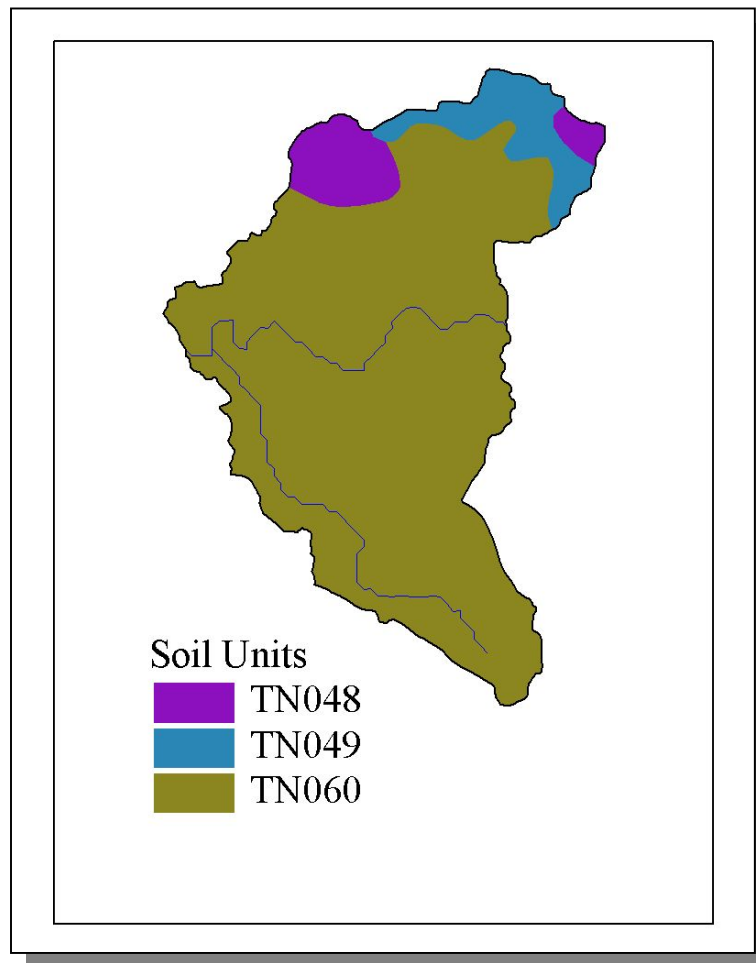


Figure 4-143. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060504.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN048	8.00	B	1.38	5.06	Silty Loam	0.42
TN049	0.00	C	1.30	5.94	Silty Loam	0.34
TN060	5.00	C	1.30	5.32	Silty Loam	0.39

Table 4-109. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060504. The definition of “Hydrologic Group” is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Robertson	41,494	51,533	54,433	6.27	2,600	3,230	3,411	31,2

Table 4-110. Population Estimates in Subwatershed 051302060504.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Cedar Hill	Robertson	363	128	16	105	7

Table 4-111. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060504.

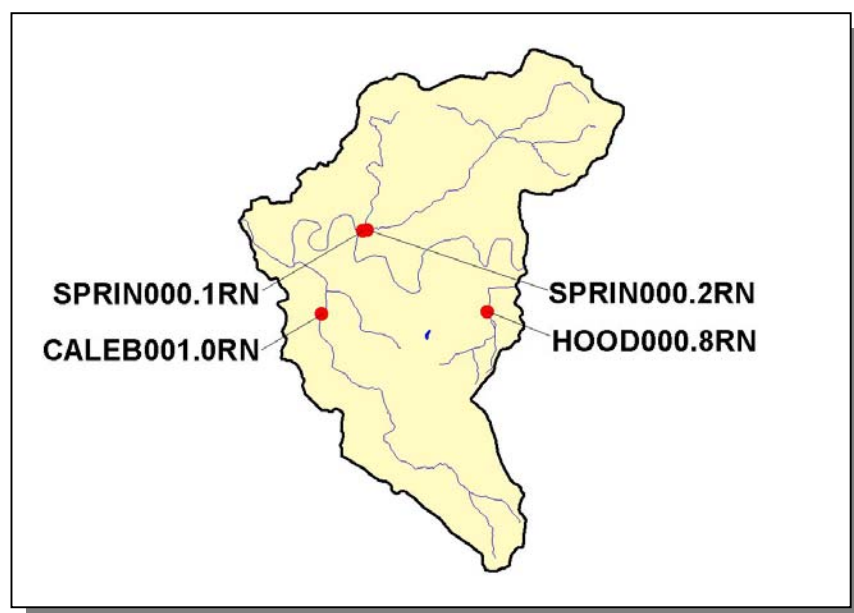


Figure 4-144. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060504. More information, including site names and locations and stations located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.D.iv.a. Point Source Contributions.

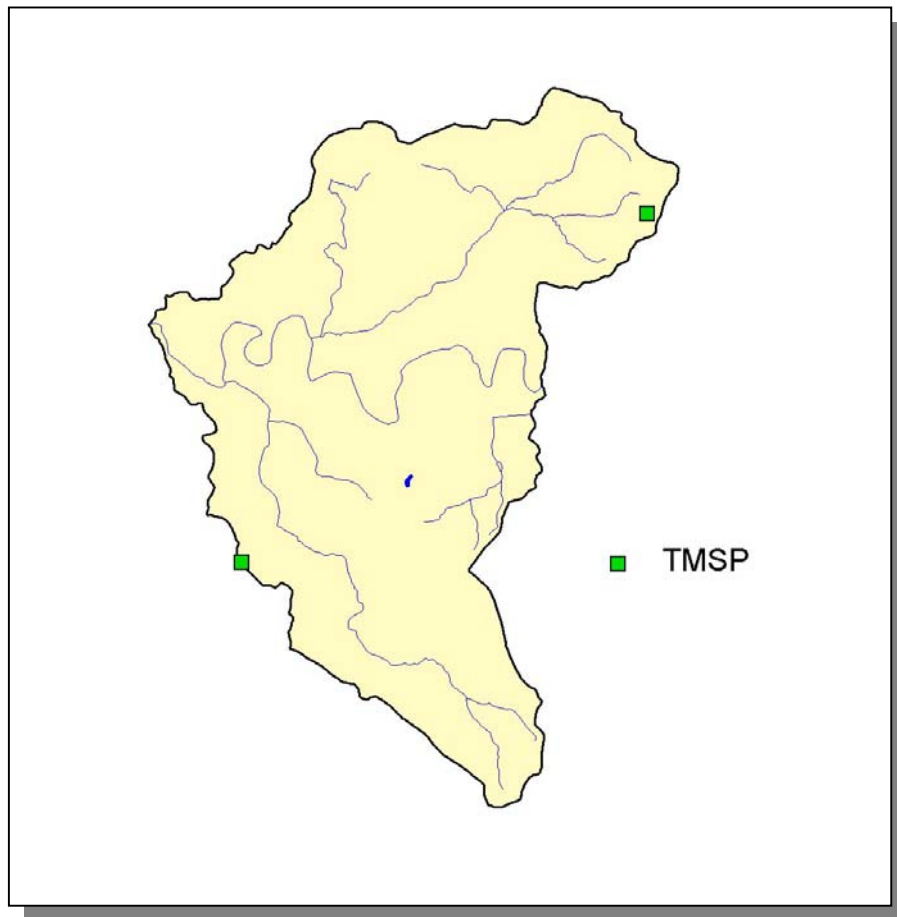


Figure 4-145. Location of Permits Issued in Subwatershed 051302060504. More information, including the names of facilities, is provided in Appendix IV.

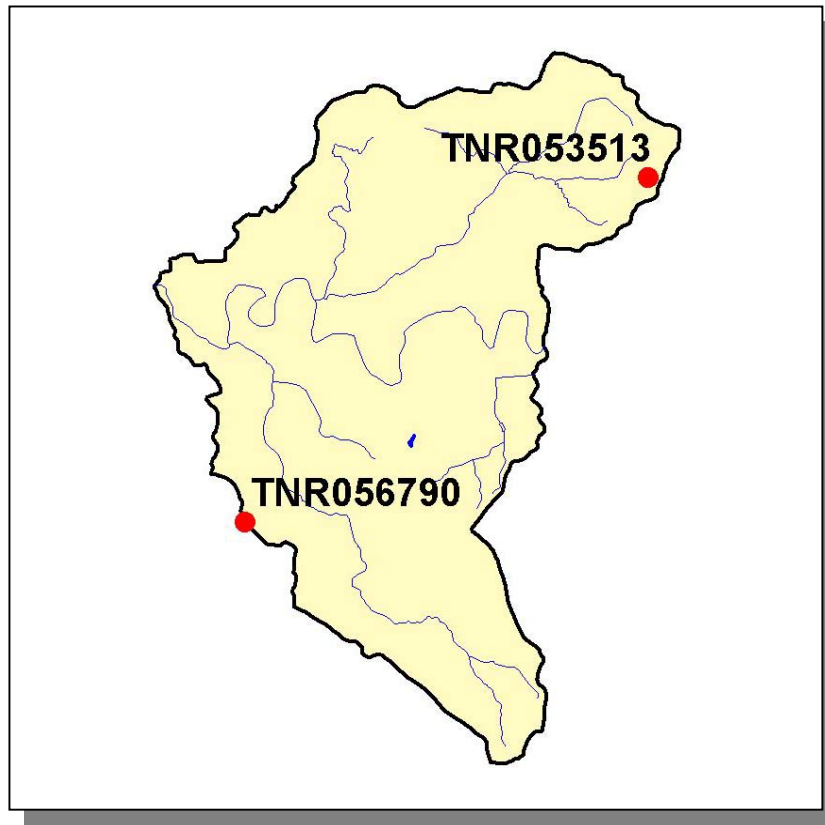


Figure 4-146. Location of TMSP Sites in Subwatershed 051302060504. More information, including the names of facilities, is provided in Appendix IV.

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4.2.D.iv.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,505	3,202	233	<5	467	19

Table 4-112. Summary of Livestock Count Estimates in Subwatershed 051302060504. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Robertson	22,502	47,887	3,478	31	6,982	279

Table 4-113. Summary of Livestock Count Estimates in Robertson County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Robertson	53.0	53.0	2.2	9.7

Table 4-114. Forest Acreage and Annual Removal Rates (1987-1994) in Robertson County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.67
Grass (Hayland)	0.37
Legumes, Grass (Hayland)	0.53
Legumes (Hayland)	0.73
Grass, Forbs, Legumes (Mixed Pasture)	0.42
Corn (Row Crops)	5.15
Soybeans (Row Crops)	10.03
Tobacco (Row Crops)	11.87
Wheat (Close-Grown Cropland)	1.68
Other Cropland not Planted	9.59
Conservation Reserve Program Lands	0.36
Other Land in Farms	0.27
Farmsteads and Ranch Headquarters	0.95

Table 4-115. Annual Estimated Total Soil Loss in Subwatershed 051302060504.

4.2.D.v. 051302060505 (Millers Creek).

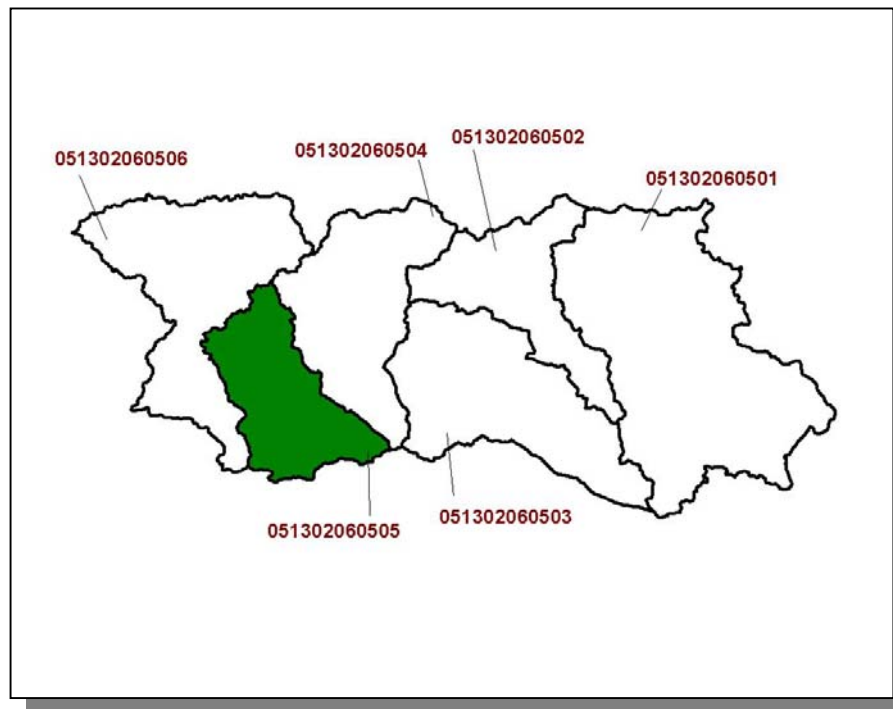


Figure 4-147. Location of Subwatershed 051302060505. All HUC-12 subwatershed boundaries are shown for reference.

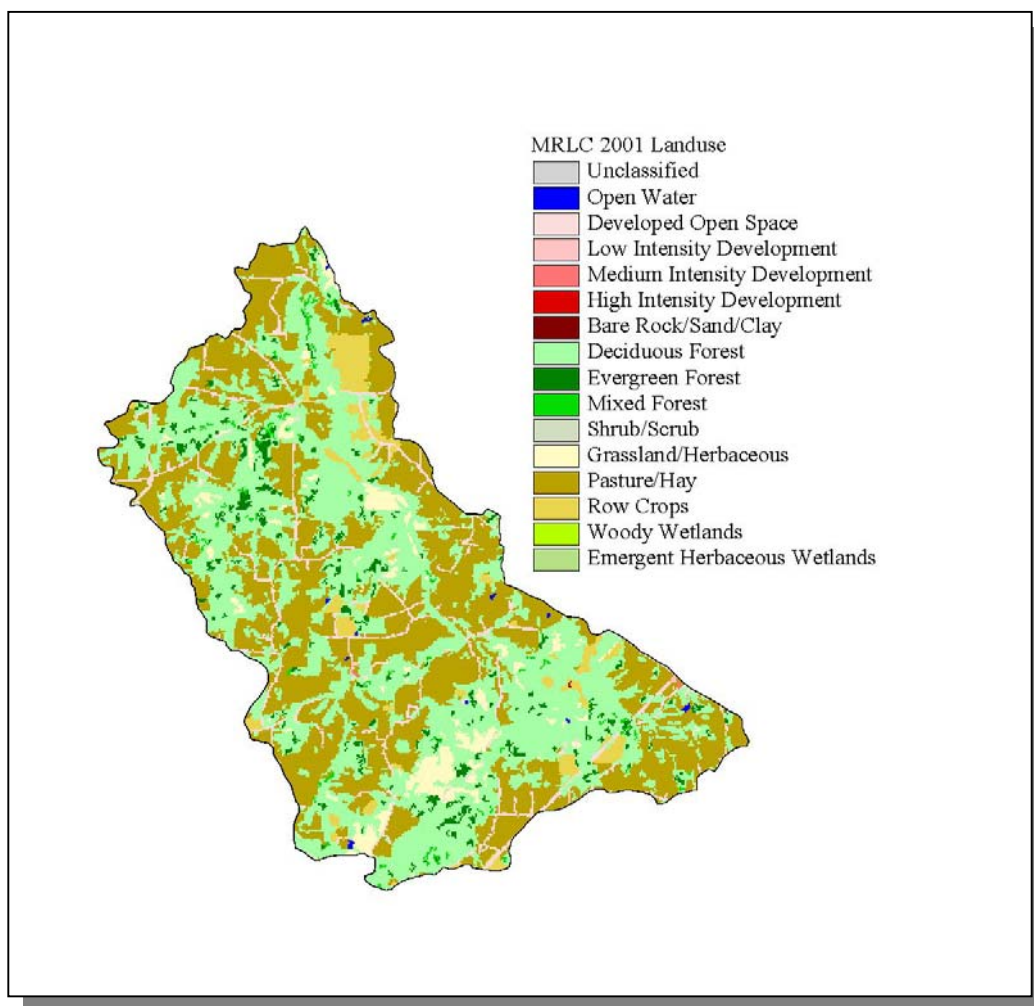


Figure 4-148. Illustration of Land Use Distribution in Subwatershed 051302060505.

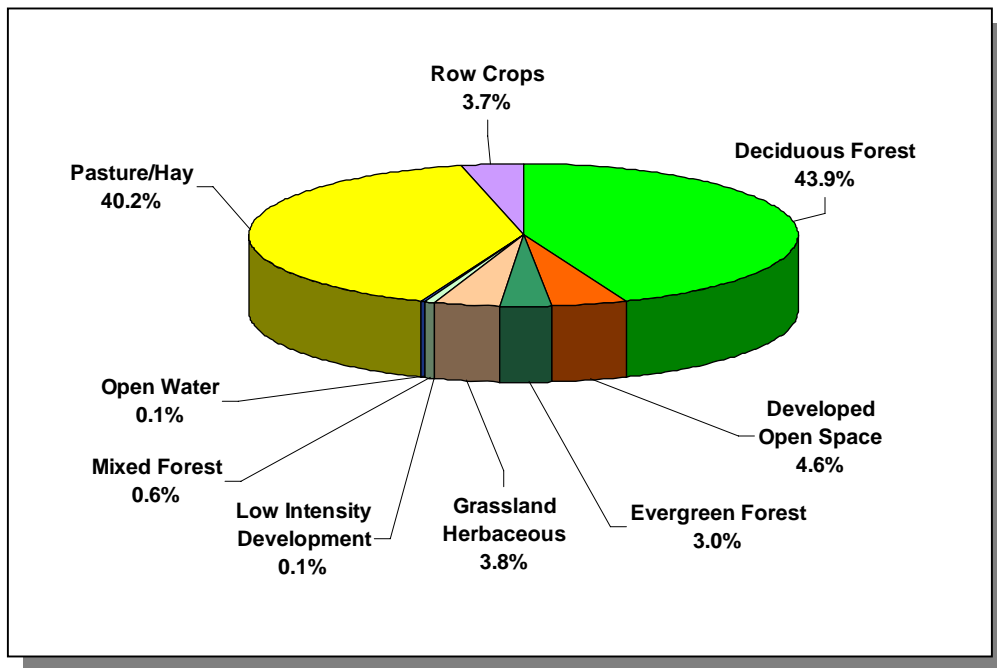


Figure 4-149. Land Use Distribution in Subwatershed 051302060505. More information is provided in Appendix IV.

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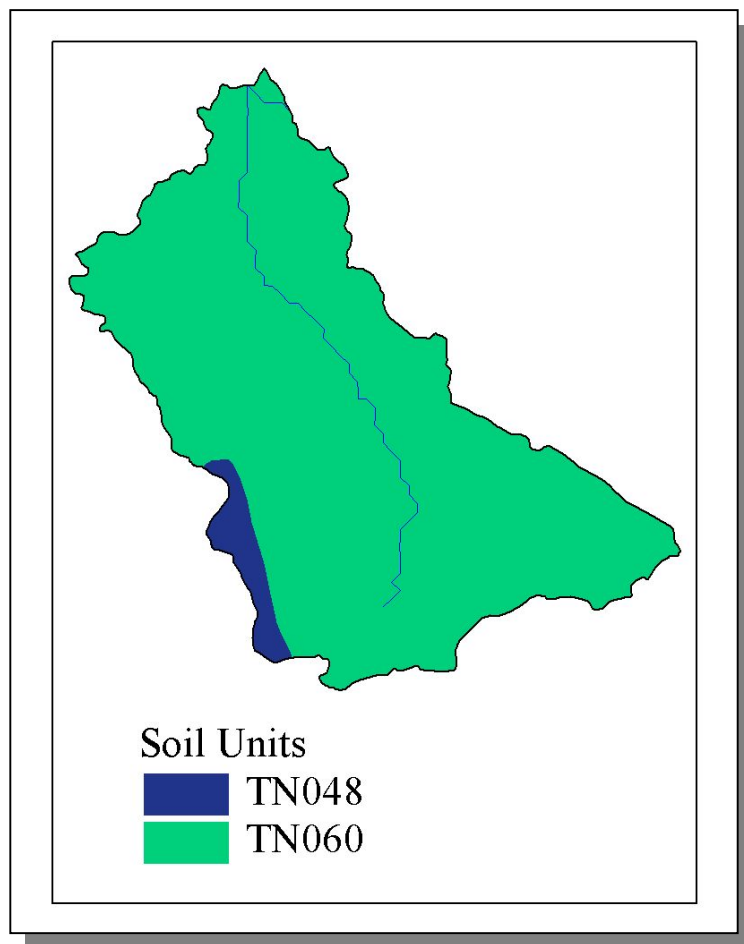


Figure 4-150. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060505.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN048	8.00	B	1.38	5.06	Silty Loam	0.42
TN060	5.00	C	1.30	5.32	Silty Loam	0.39

Table 4-116. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060505. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Robertson	41,494	51,533	54,433	4.67	1,940	2,409	2,545	31.2

Table 4-117. Population Estimates in Subwatershed 051302060505.



Figure 4-151. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060505. More information is provided in Appendix IV.



Figure 4-152. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060505. More information, including site names and locations and stations located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.D.v.a. Point Source Contributions.

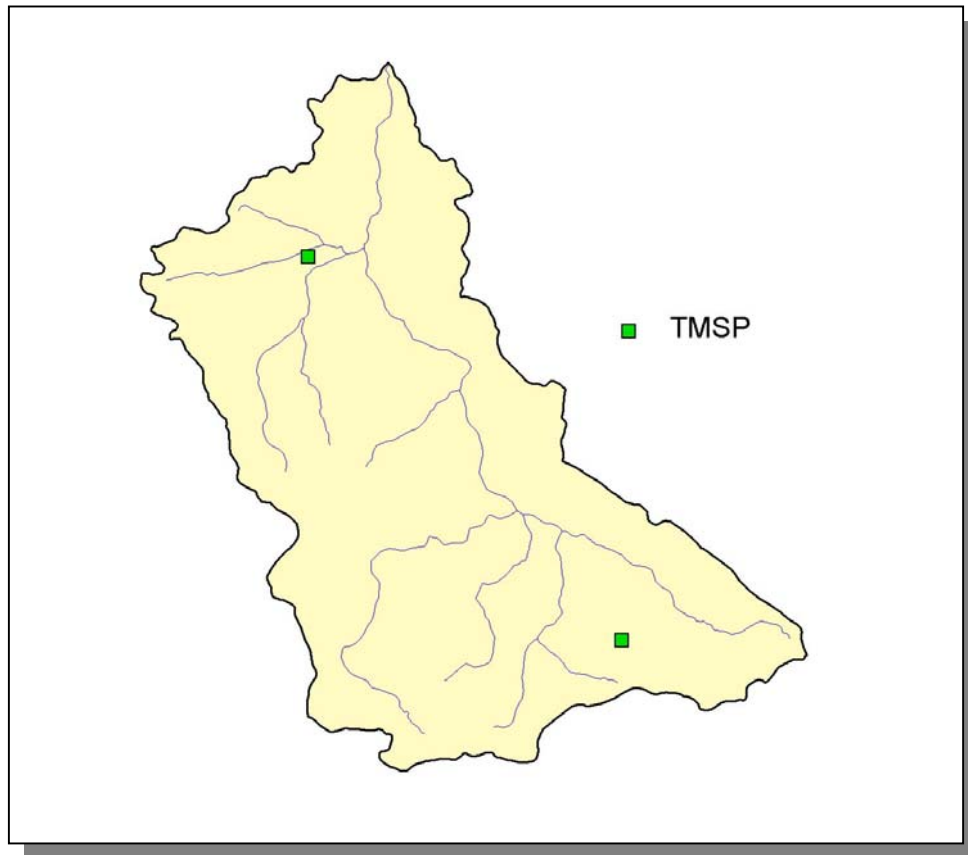


Figure 4-153. Location of Permits Issued in Subwatershed 051302060505. More information, including the names of facilities, is provided in Appendix IV.

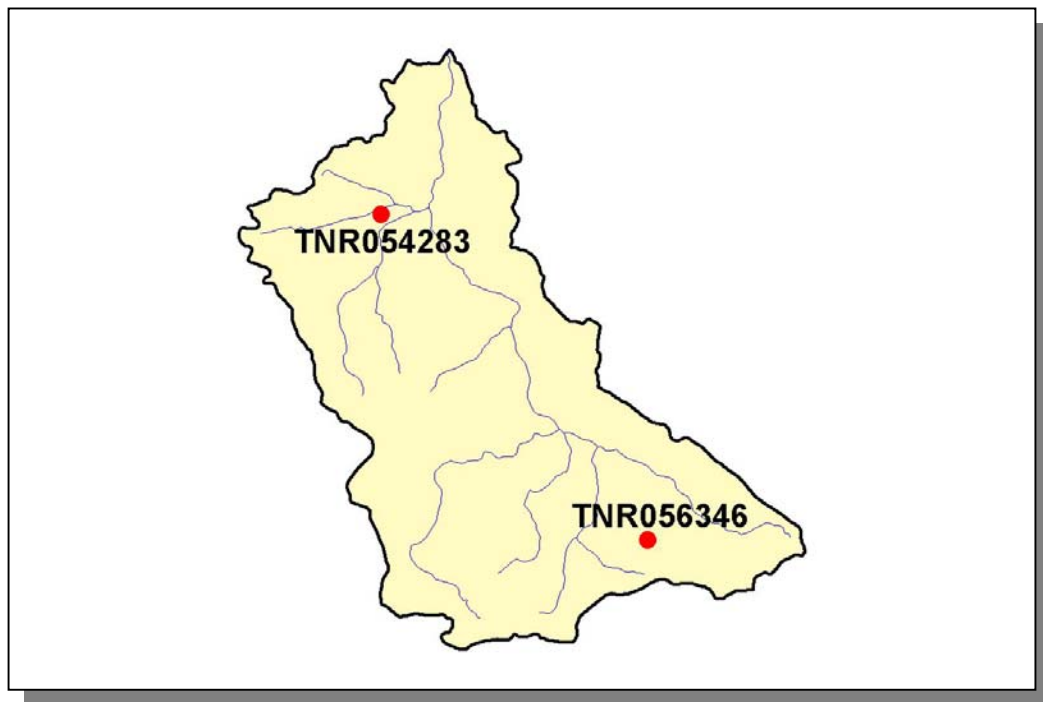


Figure 4-154. Location of TMSP Sites in Subwatershed 051302060505. More information, including the names of facilities, is provided in Appendix IV.

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4.2.D.v.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
847	1,802	131	<5	263	10

Table 4-118. Summary of Livestock Count Estimates in Subwatershed 051302060505. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Robertson	22,502	47,887	3,478	31	6,982	279

Table 4-119. Summary of Livestock Count Estimates in Robertson County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Robertson	53.0	53.0	2.2	9.7

Table 4-120. Forest Acreage and Annual Removal Rates (1987-1994) in Robertson County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.67
Grass (Hayland)	0.37
Legumes, Grass (Hayland)	0.53
Legumes (Hayland)	0.73
Grass, Forbs, Legumes (Mixed Pasture)	0.42
Corn (Row Crops)	5.15
Soybeans (Row Crops)	10.03
Tobacco (Row Crops)	11.87
Wheat (Close-Grown Cropland)	1.68
Other Cropland not Planted	9.59
Conservation Reserve Program Lands	0.36
Other Land in Farms	0.27
Farmsteads and Ranch Headquarters	0.95

Table 4-121. Annual Estimated Total Soil Loss in Subwatershed 051302060505.

4.2.D.vi. 051302060506 (Sulphur Fork Creek).

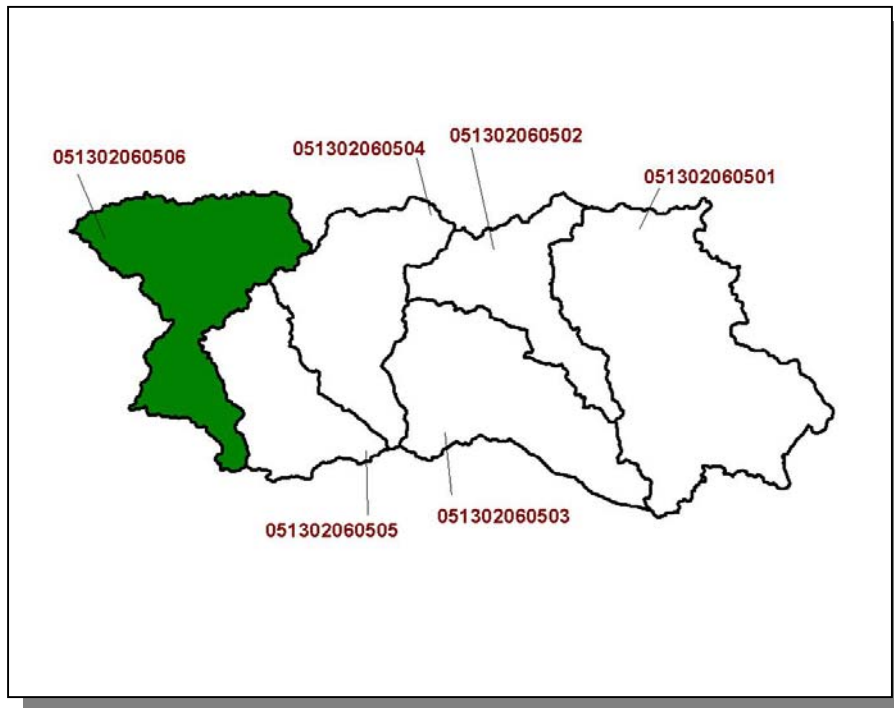


Figure 4-155. Location of Subwatershed 051302060506. All HUC-12 subwatershed boundaries are shown for reference.

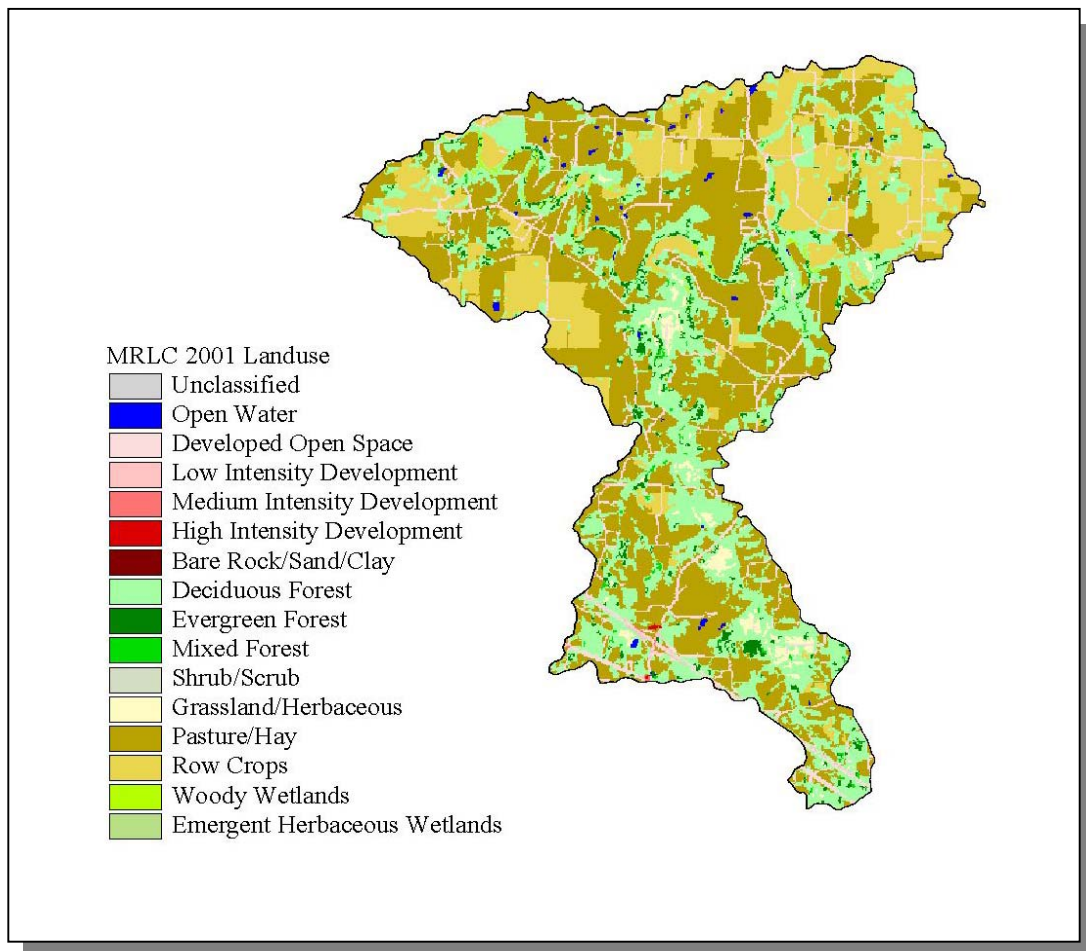


Figure 4-156. Illustration of Land Use Distribution in Subwatershed 051302060506.

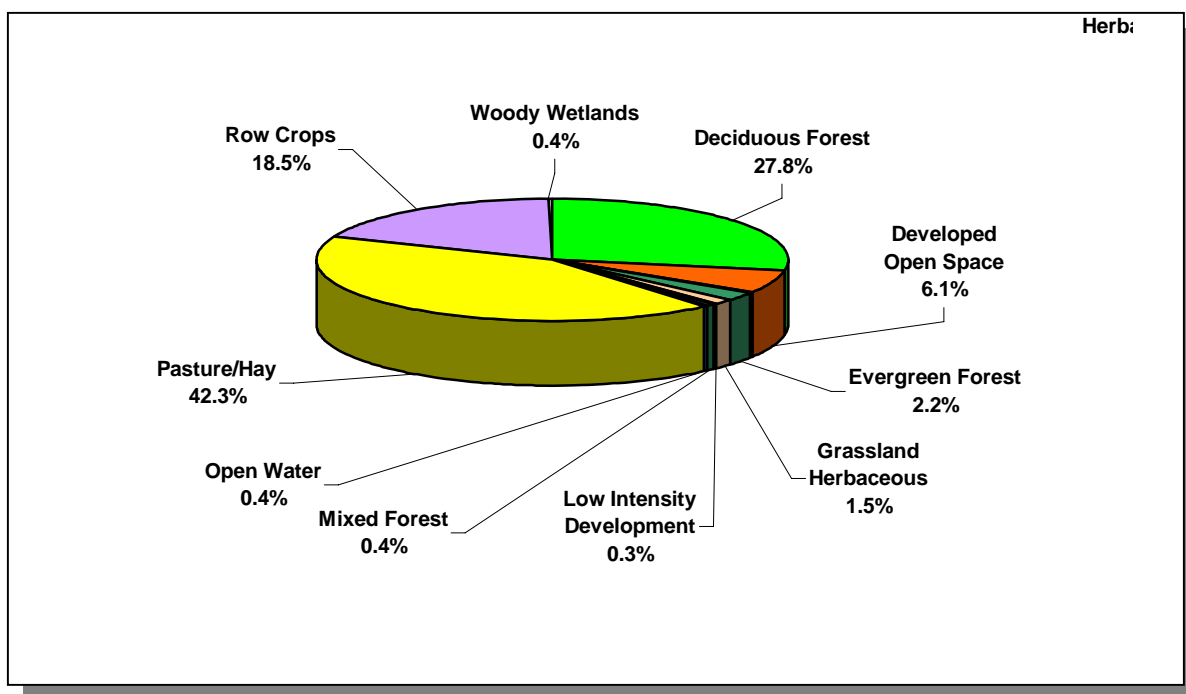


Figure 4-157. Land Use Distribution in Subwatershed 051302060506. More information is provided in Appendix IV.

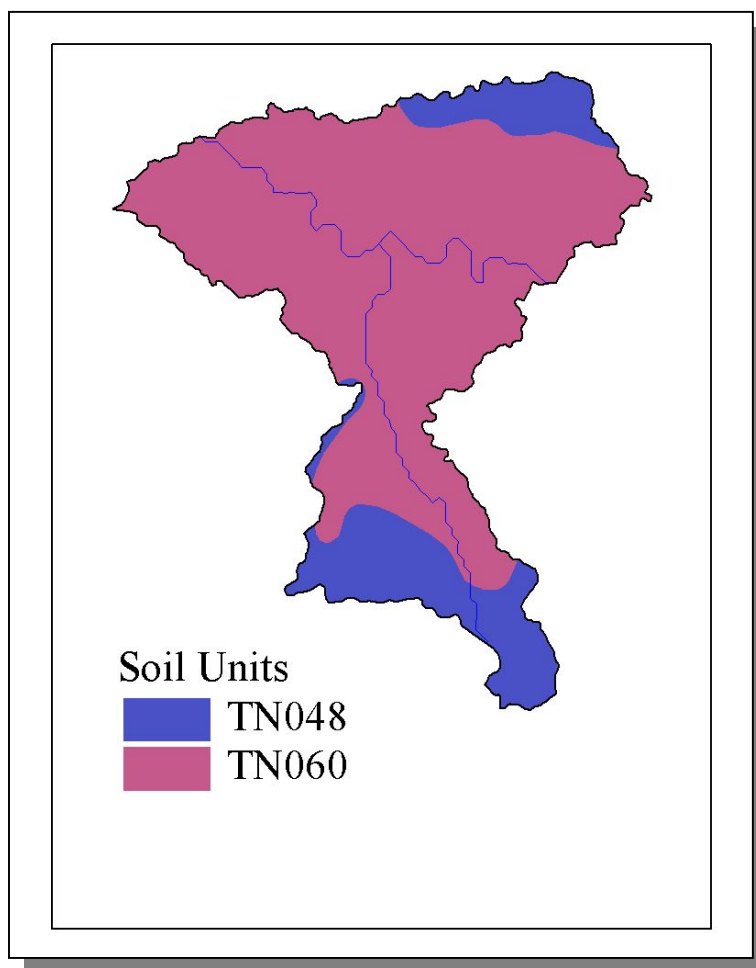


Figure 4-158. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060506.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN048	8.00	B	1.38	5.06	Silty Loam	0.42
TN060	5.00	C	1.30	5.32	Silty Loam	0.39

Table 4-122. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060506. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Cheatham	27,140	34,402	35,912	0.32	88	112	117	33.0
Montgomery	100,498	124,369	134,768	0.9	900	1,114	1,207	34.1
Robertson	41,494	51,533	54,433	6.49	2,694	3,345	3,534	31.2
Total	169,132	210,304	225,113		3,682	4,571	4,858	31.9

Table 4-123. Population Estimates in Subwatershed 051302060506.

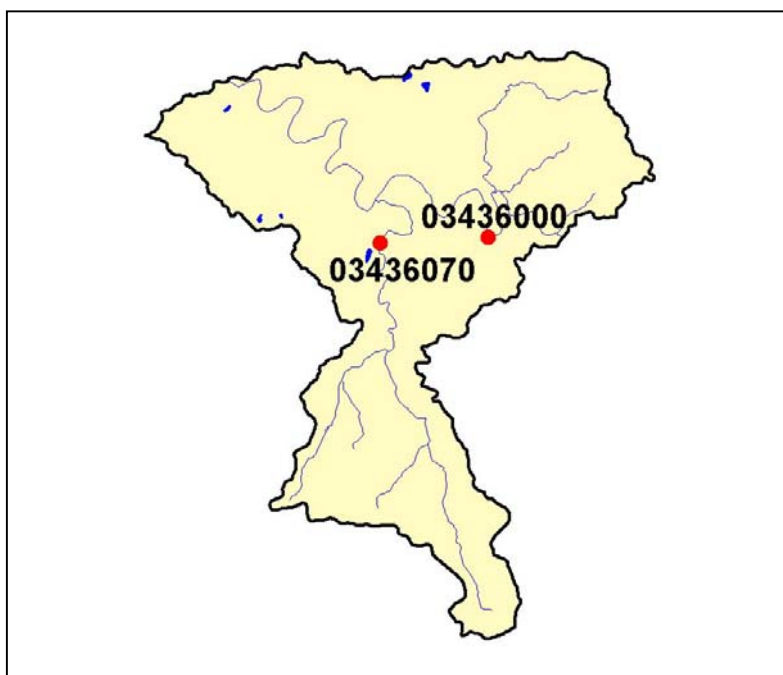


Figure 4-159. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060506. More information is provided in Appendix IV.

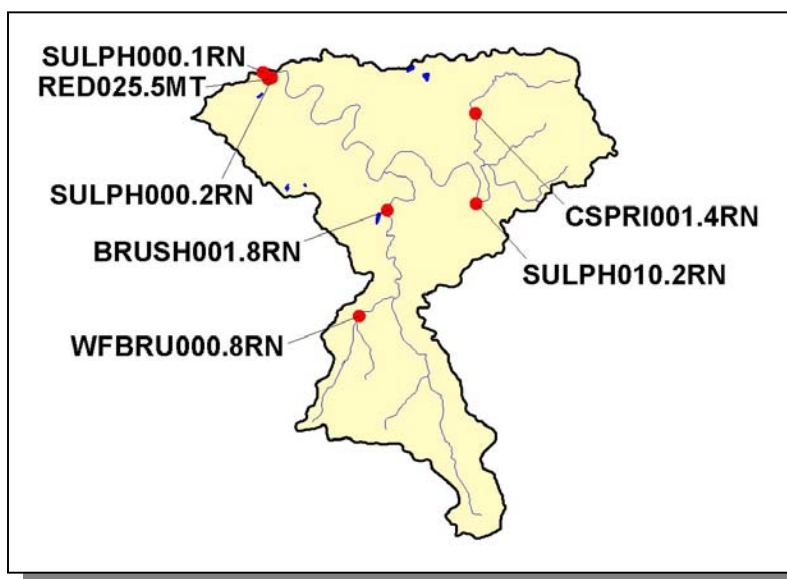


Figure 4-160. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060506. More information, including site names and locations and stations located in the watershed outside of Tennessee, is provided in Appendix IV.

4.2.D.vi.a. Point Source Contributions.

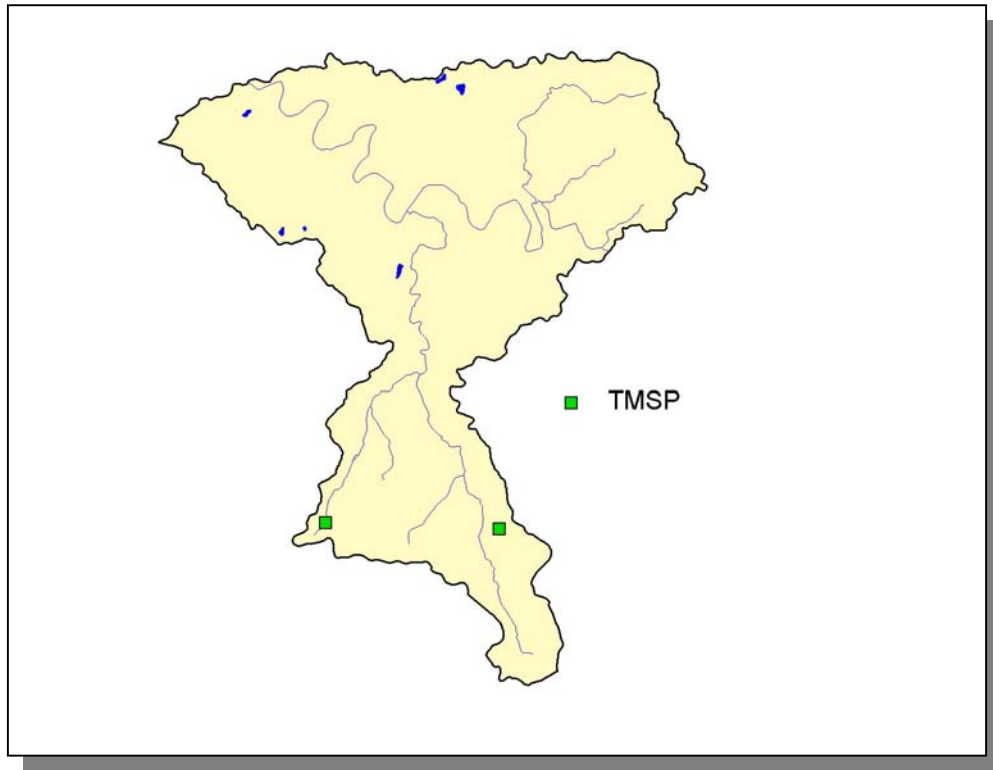


Figure 4-161. Location of Permits Issued in Subwatershed 051302060506. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-162. Location of TMSP Sites in Subwatershed 051302060506. More information, including the names of facilities, is provided in Appendix IV.

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4.2.D.vi.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,982	4,269	259	<5	532	22

Table 4-124. Summary of Livestock Count Estimates in Subwatershed 051302060506. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Cheatham	0	11,429	0	121	1,183	0
Montgomery	16,051	30,959	760	913	1,408	107
Robertson	22,502	47,887	3,478	31	6,982	279

Table 4-125. Summary of Livestock Count Estimates in Cheatham, Montgomery, and Robertson Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Cheatham	118.2	118.2	2.3	8.4
Montgomery				
Robertson	53.0	53.0	2.2	9.7

Table 4-126. Forest Acreage and Annual Removal Rates (1987-1994) in Cheatham, Montgomery, and Robertson Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.64
Grass (Hayland)	0.36
Legumes, Grass (Hayland)	0.51
Legumes (Hayland)	0.72
Grass, Forbs, Legumes (Mixed Pasture)	0.45
Corn (Row Crops)	5.61
Soybeans (Row Crops)	9.27
Tobacco (Row Crops)	13.25
Wheat (Close-Grown Cropland)	1.68
Other Cropland not Planted	9.32
Conservation Reserve Program Lands	0.37
Other Land in Farms	0.27
Farmsteads and Ranch Headquarters	0.81

Table 4-127. Annual Estimated Total Soil Loss in Subwatershed 051302060506.